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FRASER RIVER ESTUARY STUDY, WATER QUALITY, SURVEY OF DISSOLVED OXYGEN IN 1978

by

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ABSTRACT

Water quality in the Fraser River Estuary has been described in a summary report, and in a set of eleven background reports. The present report is one in a short series of technical additions, which supply information too detailed to incorporate in the background reports.

A survey was undertaken in 1978 to assess the general oxygen regime of the lower Fraser in the Main and North Arms. During this survey, data were collected on dissolved oxygen, temperature, pH, conductivity and oxidation-reduction potential. Data obtained from the North Arm in 1977 are also included in this report.

It was found that oxygen levels were generally high in the study area and posed no risk to aquatic life. However, some low values were found in Cannery Channel, Deas Slough, McDonald Slough, Tilbury Slough and along the North Arm Jetty.

It is recommended that the high levels of dissolved oxygen be safeguarded. It is also recommended that the general oxygen regime of the river should be monitored in all seasons to detect any changes from the present acceptable situation. This would require two to three sampling profiles in each of the main river reaches, three to four times per year. Site specific studies of those areas where unusually low values were found should also be undertaken.

PREFACE

The Fraser River Estuary Study was set up by the Federal and Provincial Governments to develop a management plan for the area.

The area under study is the Fraser River downstream from Kanaka Creek to Roberts Bank and Sturgeon Bank. The Banks are included between Point Grey and the U.S. Border. Boundary Bay and Semiahmoo Bay are also included but Burrard Inlet is not in the study area.

The study examined land use, recreation, habitat and water quality, and reports were issued on each of these subjects.

Since the water quality report was preliminary, a more detailed analysis of the information was undertaken by members of the water quality work group. As a result, eleven background technical reports have been published. The background reports are entitled as follows.

- Municipal Effluents.
- Industrial Effluents.
- Storm Water Discharges.
- Impact of Landfills.
- Acute Toxicity of Effluents.
- Trace Organic Constituents in Discharges.
- Toxic Organic Contaminants.
- Water Chemistry; 1970-1978.
- Microbial Water Quality; 1970-1977.
- Aquatic Biota and Sediments.
- Boundary Bay.

Each of the background reports contains conclusions and recommendations based on the technical findings in the report. The recommendations do not necessarily reflect the policy of government agencies funding the work. Copies of these reports will be available at all main branches of the public libraries in the Lower Mainland.

Five auxiliary reports, of which this report is one, are also being published in further support of the study. These cover the following subjects:

- Site registry of storm water outfalls.
- Dry weather storm sewer discharges.
- Data report on water chemistry.
- Survey of fecal coliforms in 1978.
- Survey of dissolved oxygen in 1978.

Copies of these reports will be available from the Ministry of Environment, Parliament Buildings, Victoria, British Columbia.

To bring this work together the water quality work group has published a summary report. This document summarizes the background reports, analyzes their main findings and presents final recommendations. Some of the recommendations from the background reports are omitted or modified in the summary report, due to the effect of integrating conclusions on related topics. Copies of the summary report are in public libraries, and extra copies are available to interested parties from the Ministry of Environment in Victoria.

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Copies of this report may be obtained from the Map Library, Ministry of Environment, Assessment and Planning Division, 765 Broughton Street, Victoria, B.C., V8V 1X5 or Fraser Estuary Study, 15326-103 A Ave., Surrey, B.C. V3R 7P8

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1. INTRODUCTION

Three surveys of dissolved oxygen levels in the lower Fraser River were undertaken in two-day sampling periods in April, August and October 1978. Three areas were sampled: 1) Main channels, which represent the open channels of the Main Stem, Main Arm and North Arm; 2) Side channels, which represent the smaller, slower channels of the river, and 3) Sloughs, which are those areas which are only open to the river from one end.

The study was designed to fill gaps in existing data, and to help make recommendations on future monitoring. The data have been included in a report on water chemistry in the Fraser River Estuary (Drinnan and Clark, 1980). This auxiliary report reviews the current oxygen regime of the river, and relates oxygen content to geographical location and season. Also discussed are temperature, specific conductivity, pH and oxidation reduction potential, which were measured at the same time as dissolved oxygen. Data from two stations in the North Arm, which were monitored hourly in 1977, are also included.

2. GENERAL SURVEY IN 1978

2.1 Methods and Data Presentation

Measurements of dissolved oxygen (DO), temperature, conductivity, pH and oxidation-reduction potential (ORP) were made using a Hydrolab R Model 6D In-Situ Water Quality Analyzer. The unit is equipped with a standard closed-cell polarographic oxygen electrode. Salinity and percent oxygen saturation values were derived from collected data using programs based on Bennett (1976) and Weiss (1970) respectively.

Sampling was carried out on April 3-5, August 23 and 24 and October 25 and 26, 1978. From 39 to 72 stations were visited by boat on each trip. These stations are shown in Figure 1 and described in Table 1. Measurements were taken at various depths, from the surface to a maximum of 10 m at each station.

The sites were first combined into 26 geographical areas before being grouped into the three main area types - Main Channel, Side Channel and Sloughs. Each geographical area was given a code letter. These start at the mouth of the Main Arm, progress upriver to New Westminister and then go downriver to the mouth of the North Arm as shown in Figure 1. In the North Arm, the main channel areas were around Poplar Island (P), Queensborough Reach and Mitchell Island (S), Oak St. Bridge (U), the North Arm Jetty (Z) and the Middle Arm (X). A side channel area was behind Mitchell Island (T). Sloughs were near the Queensborough Bridge (Q) and further downstream (R), on Richmond Island (V), one near Deering Island (W) and MacDonald Slough (Y). In the Main Arm, the main channel areas were at New Westminster (O), opposite Annacis Island (K), opposite Deas Tunnel (H), opposite Steveston (C) and in Canoe Pass (A). Side channels were behind the training wall near New Westminster (N), behind Annacis Island (L) and in Cannery Channel (B). Slough areas were the Tilbury Slough (M), Deas Slough (J), Woodward Landing Slough (I), Gilmour Slough (G), near the Ladner Sewage Treatment Plant (F), Ladner Slough and Side Channel (E) and Ewen Slough (D).

2.2 Discussion of Results

2.2.1 Introduction

The sites that were visited are listed in Table 1 according to their geographical location. Also listed are the number of depths sampled at each site during the April, August and October trips. In October, sampling was reduced since the previous surveys suggested that the DO regime of the Main Stem and the upper North Arm were constant, with levels well above minimum limits considered necessary to preserve aquatic life. Because not all the same sites were sampled on each trip, some caution is required when interpreting overall means. This especially applies to the October means, since no data were collected in the main channels of the Main Arm in October.

Overall means for temperature, DO, conductivity, pH and ORP have been plotted in Figures 2 to 8 against sampling date. The standard error has also been plotted around each mean. The standard error is the standard deviation of a sample divided by the square root of the number of values (sample size). It can also be thought of as the 67% confidence limits around each mean. This means that there is a 67% chance that the "true" population mean is somewhere within the error bars. The 95% confidence limtis would require that the error bars be twice as long.

A fairly complete summary of the data (for temperature, dissolved oxygen, specific conductivity, pH and oxidation-reduction potential), collected in each of the 26 geographical locations, is presented in Appendix A (Tables A-1 to A-6). The raw data for each reach are presented in Appendix B (Tables B-1 to B-26).

2.2.2 Temperature

The data are summarized in Table 2 and plotted in Figure 2.

Temperature shows a definite seasonal trend. The values are lowest in April and highest in August. Some small differences between the three area types were noted. In April and August the sloughs were slightly warmer

than the main and side channels. This might be expected as the sloughs are smaller water bodies with little flow, and should therefore warm up faster than the main river with its large water mass and flow. There was little variation with depth as indicated by the correlation coefficients presented in Table 10.

2.2.3 Dissolved Oxygen

A summary of dissolved oxygen (DO) and percent saturation values is presented in Table 3. The values are plotted in Figures 3 and 4.

Figure 3 shows that dissolved oxygen has a seasonal pattern. Overall, values were highest in April (12.2 mg/L), lowest during August (9.1 mg/L), and intermediate (10 mg/L) in October. However, for percent saturation of oxygen, August was intermediate (94% saturation) between April (101% saturation and October (92% saturation). The lowest concentration during August was most likely due to the warm temperature, since the solubility of oxygen decreases as temperature increases (i.e., the water contains less oxygen at higher temperature even though the % saturation remains constant).

A comparison of mean values between the Main Arm and North Arm main channels for April and August, indicates that the Main Arm in August was slightly higher in both oxygen concentration and percent saturation and the North Arm was slightly higher in April (Tables A-2 and A-3).

There also appear to be differences in both oxygen concentration and percent saturation between the three main areas (Table 3). Mean values in the main channels were higher for all three months than values in the side channels, which in turn were always higher than values in the sloughs (Figures 3 and 4). However, the differences, while consistent, were not large and may not be significant as far as aquatic life criteria are concerned (Table 9). The greatest difference was observed in August, between the sloughs and the other two areas.

Oxygen concentration and percent saturation tend to decrease with depth (as indicated by negative correlations in Table 10).

2.2.4 Conductivity

Specific conductivity values (in µS/cm) are summarized in Table 5 and plotted in Figure 5. Conversion of conductivity to salinity is possible using polynomial equations involving temperature and pressure (depth) corrections. For rough comparative purposes a specific conductivity of 200 µS/cm or less is <1 part per thousand (ppt) salinity, a conductivity of 20 000 µS/cm is about 12 ppt salinity, and a conductivity of 50 000 µS/cm is about 30 ppt salinity (normal sea water).

There is considerable variability in the conductivity data as shown by the large error bars around the means in Figure 5. In April and October, high conductivity was noted at lower depths at a number of stations. This was largely due to the intrusion of sea water which, being more dense, is always at the lower depths, penetrating with the tide as a wedge along the river channels. This process, which is a function of river flow and tides, is described more fully in Drinnan and Clark, 1980.

In August, most measurements for conductivity were quite low. It is likely that the high river flow in August restricted intrusion of the salt wedge to the mouth of the river. The average daily discharge at Mission (IWD, 1978) during that sampling trip was 3 850 m^3/s which is about 180% of the flow in April (2 160 m^3/s) and about 165% of the flow during the October trip (2 330 m^3/s).

In April, the side channels as a group had a very high mean conductivity. This was almost entirely due to the high readings in Cannery Channel (B) which is very close to the mouth of the river, compared to the other three sidechannels. All sections upriver of areas H and J in the Main Arm and areas V and X in the North Arm had quite low conductivities.

In October, the main and side channel areas had quite high means, but they were obtained from only five areas instead of from 14 as in April and August. Two of the five (B,Z) are very close to the Strait of Georgia and their high values increased the overall mean in October compared to April and August.

The sloughs had a fairly constant mean and standard deviation in comparison to the main and side channel areas. The sloughs are shallower and it seems likely that the denser, saltier water rarely intrudes and mixes with the slough water. This would tend to reduce the variability in their conductivity and salinity data. However, higher conductivities were found in Deas Slough (J) in April in the bottom waters which probably contain trapped sea water from the penetrating salt wedge.

The salt wedge has a considerable influence on the conductivity of the main and side channel waters. The higher values were always deeper down and closer to the mouth of the river. The high variability due to the salt wedge obscured seasonal or area type differences in the river.

2.2.5 pH

The data are summarized in Table 6 and plotted in Figure 6. In October, we did not sample the Main Arm main channel stations. However, data from Table 4 indicate that the Waste Management Branch made two measurements (at the surface only) in the Main Arm in October 1978, and these averaged 7.5. Assuming this value is representative of the Main Arm, then the overall mean for the main channels is 7.35, as shown in brackets in Table 6.

The side channel mean for April was somewhat lower because of the low pH values in April recorded in area N, behind the training wall at New Westminster. Values there ranged between 5.8 and 6.4* compared to values of 6.6 and 7.5 outside the training wall (area 0). These low values have not been explained. There were no reported spills to the river at that time (WMB engineers, pers. comm.), and the low values were not encountered during further sampling done in the same area on April 12, 1978 (Table 7). Sampling done in several storm ditches nearby did not reveal these to be a likely source for the low values (Clark et al., 1981).

If the low values from area N are considered non-representative, and left out then the overall mean becomes 7.45, as shown in brackets in Table 6. These changes have been plotted in Figure 7. It is difficult to discern

* Note that the instrument was recalibrated to confirm the low values obtained.

any definite differences in the pH data. In general, the pH was relatively constant and had no clear seasonal or area type variation, although pH tends to decrease with depth (see Table 10).

2.2.6 Oxidation Reduction Potential (ORP)

Results of the ORP measurements (converted to hydrogen electrode standard) are summarized in Table 8 and plotted in Figure 8. The following is a brief discussion of the theory and uses of ORP. When a platinum probe and a reference probe are placed into a solution containing a strong oxidizing agent than the platinum probe will assume a positive voltage relative to the reference. Conversely, if the solution contains a strong reducing agent, then the platinum probe will assume a negative voltage with respect to the reference. There is no rigorous thermodynamic interpretation of ORP data. Nonetheless ORP measurements can be valuable in identifying sources of oxidizing or reducing agents to the environment and in estimating environmental boundary conditions.

Oxidizing conditions were observed in all areas. Lower potentials were observed in some sloughs and side channels. Higher oxidizing conditions were indicated in MacDonald Slough in October 1978. ORP values tend to increase with depth (see Table 10). No ORP values were collected August 1978 because of instrument malfunction.

3. TWENTY-FOUR HOUR SAMPLINGS IN 1977

On April 6 and 7, 1977 data were collected for twenty-four hours in the North Arm, at site 0920181 (Figure 1). The experiment was repeated at site 0920298 in the North Arm on October 31 and November 1, 1977. The hourly depth profiles for temperature, DO, % DO, salinity and pH for April 6 to 7 at site 0920181 are plotted in Figures 10 to 14. The fall sampling depth profiles for the October 31 to November 1 sampling trip at site 0920298 are plotted in Figures 15 through 19. The raw data are available from EQUIS.

There is clear evidence of a salt wedge from the spring data. During low tide it is mostly river water in the top four or five metres. As the tide begins to flood (see Figure 13) the sea water intrudes (1900 hours) and there is clear stratification of sea and other water at 2000 hours. The sea water is warmer with slightly higher oxygen concentrations and percent saturation, and possibly pH. The salt wedge begins to flush out on the ebbing tide by 1100 hours.

The fall sampling trip also shows clear evidence for the salt wedge intrusion with high tide. Sampling started at a high low tide (see Figure 18) and the presence of the salt wedge was evident below 2 m. The salt wedge was flushed out by 2400 hours and did not reappear until 0500 hours when the tide was in full flood. Like April, the sea water was slightly warmer than the other water, but oxygen concentration was clearly lower, although the percent saturation was only slightly lower in the more saline waters. The pH remained fairly constant regardless of salinity.

During the fall sampling trip, surface water samples were also collected at each hour. Nineteen parameters were measured and the results are plotted in Figures 21 through 28. These data are not properly part of the Dissolved Oxygen Study and as such will not be discussed here. They have been included for completion and documentation purposes. The raw data are available from EQUIS.

4. CONCLUSIONS AND RECOMMENDATIONS

This study shows that oxygen levels were generally high in the river. Certain areas, such as the lower depths of Cannery Channel, Deas Slough, Tilbury Slough, and McDonald SLough had reduced oxygen concentrations, associated with increased conductivity and slight temperature differences. The cause of the reduction is probably lack of circulation, aggravated by increased oxygen demand of organic material such as wood deposits from log booms.

Dissolved oxygen criteria for support of aquatic life are best considered in terms of percent saturation values. These values take into account the effect of salinity and temperature on the solubility of oxygen. Davis (1975) states criteria for fish populations at various temperatures and levels of protection (Table 9, taken from Table 10 of Davis). Level A represents ideal conditions where few members of the population are likely to be affected. Level B reflects the threshold at which the average member of a population will be affected and Level C is the level were a large proportion of a given fish community or population will exhibit symptoms of oxygen stress.

Dissolved oxygen in the main reaches of the river always exceeded the B level criteria for the resident fish species. In most of the main part of the river, the DO was above the best possible level of protection. Marine and estuarine invertebrates will also be protected by the criteria in Table 9, as many invertebrates can withstand much more severe lack of oxygen for longer periods of time than fish.

However, some DO measurements in Cannery Channel on each trip, in Deas Slough in April and August, in McDonald Slough in August and October, in Tilbury Slough in April and October and along the North Arm jetty in August were below level A. Many of these were also below level B and a few below level C.

The reasons for the low values vary. All five areas have man-made obstructions which have resulted in a restriction of river flow. The slower

moving waters accumulate organic material from a variety of sources including log booms, leachate from landfills and, in the case of Cannery Channel, from the effluents of fish-processing plants. In addition, the salt wedge can occasionally penetrate the bottom waters of these areas, becoming trapped because of the higher density of sea water. Since circulation is restricted, a fairly long residence time is possible, allowing a longer period for microbial decomposition of organic material. The process reduces the oxygen content of the water.

In its present state, the Fraser River Estuary contains high dissolved oxygen levels, suitable for the uses made of the area, including fishing. Maintenance of present levels is a realistic goal for the future. If fishery concerns deem it beneficial, it may be possible to increase the DO in some slough areas by increasing the river flow through them.

Future monitoring programs should include dissolved oxygen sampling programs of two types. First, the general oxygen regime of the river should be monitored in all seasons in order to detect any changes from the present acceptable situation. This would require 2-3 sampling profiles in each of the main river reaches 3-4 times per year, following the format of the study reported on here. Secondly, site specific studies in areas of concern should be done. Deas and Tilbury Slough and Cannery Channel have recently been intensively studied (M. Nassichuk, pers. comm.). Similar studies on MacDonald Slough and along the North Arm should be considered.

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FIGURE 1

DISSOLVED OXYGEN SAMPLING SITES SHOWING EQUIS SITE NUMBERS AND GEOGRAPHICAL AREAS

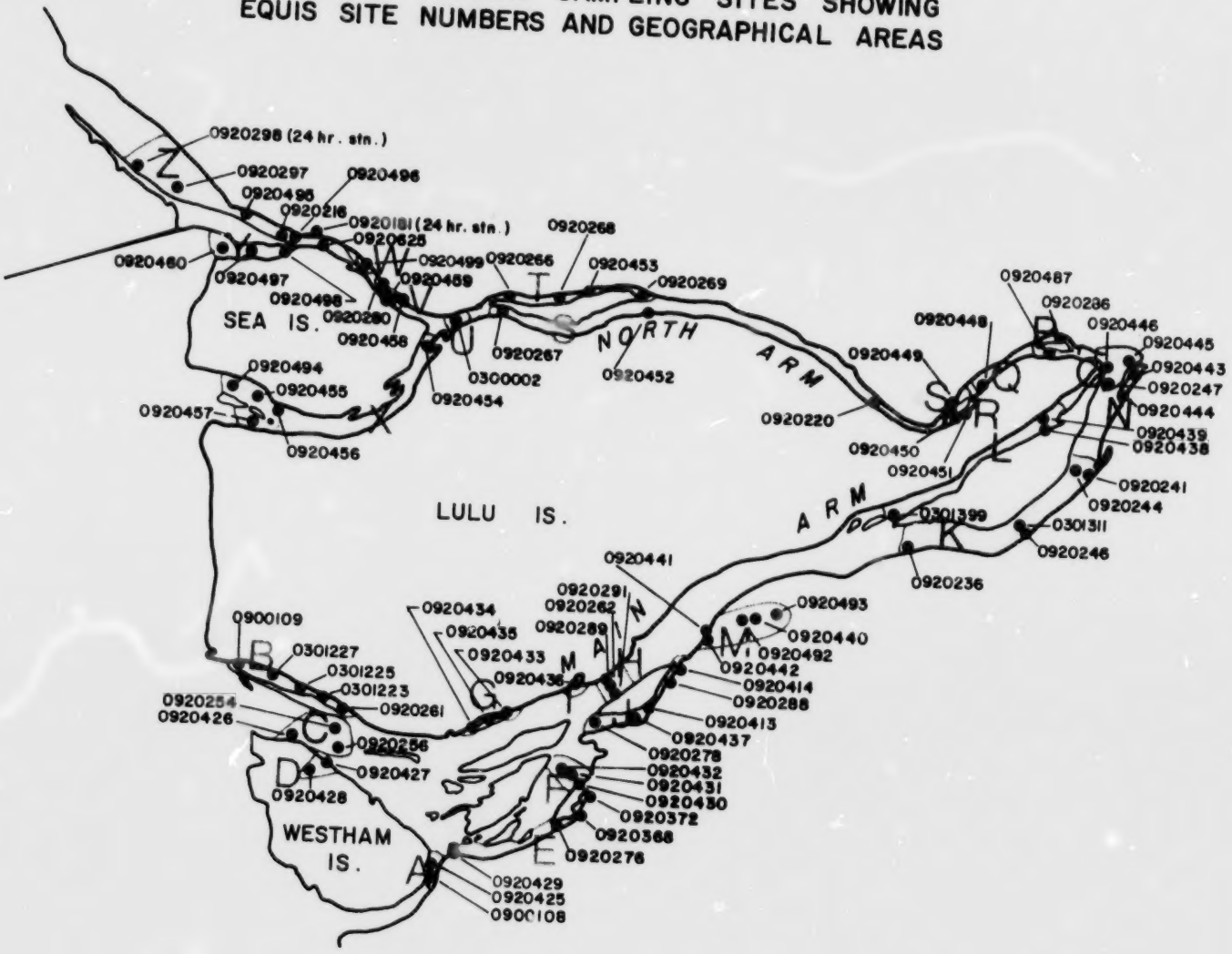


FIGURE 2
AVERAGE TEMPERATURE
FOR EACH SAMPLING TRIP AND AREA TYPE
(WITH STANDARD ERRORS)

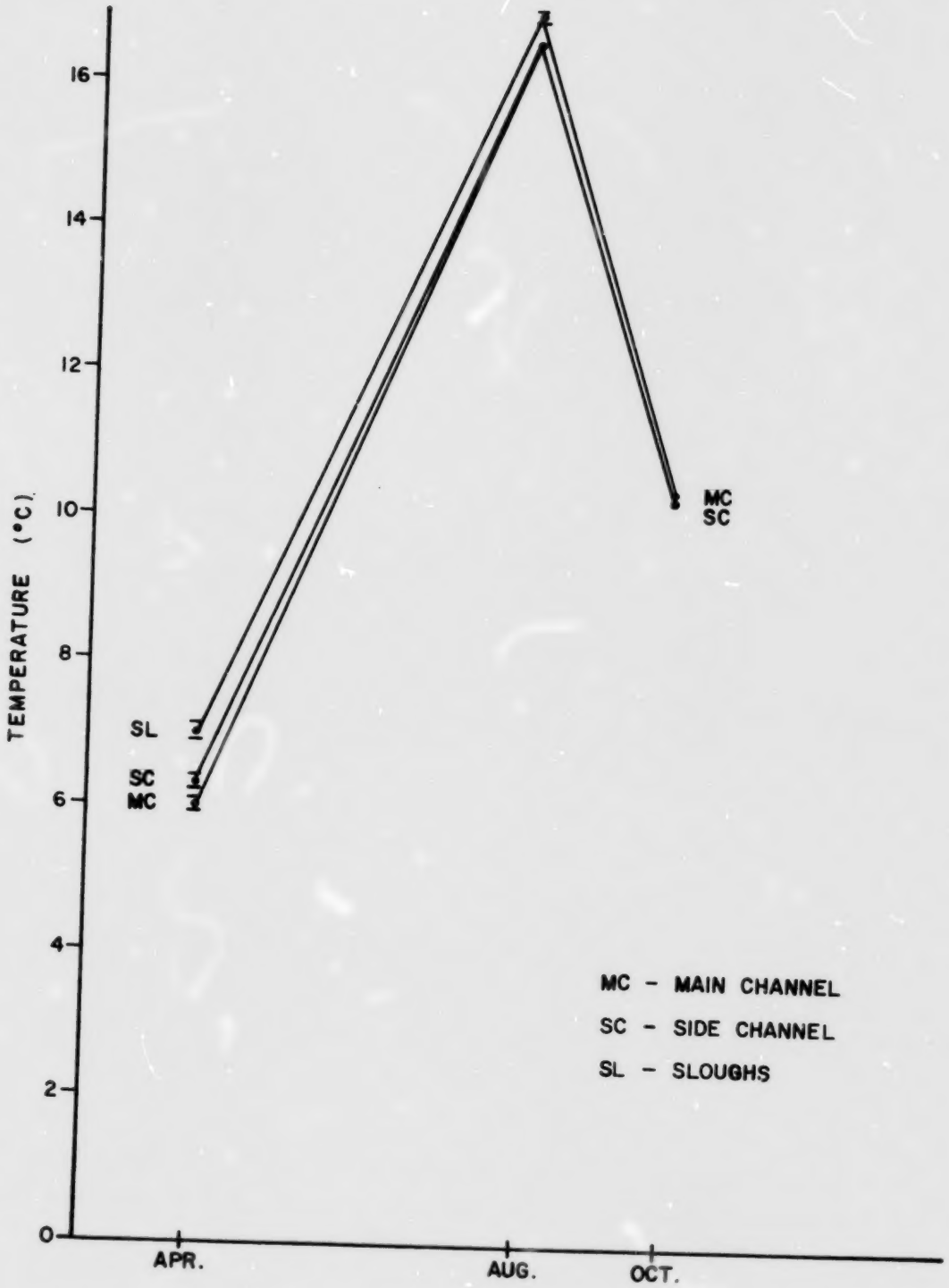


FIGURE 3
AVERAGE DISSOLVED OXYGEN
FOR EACH SAMPLING TRIP AND AREA TYPE
(WITH STANDARD ERRORS)

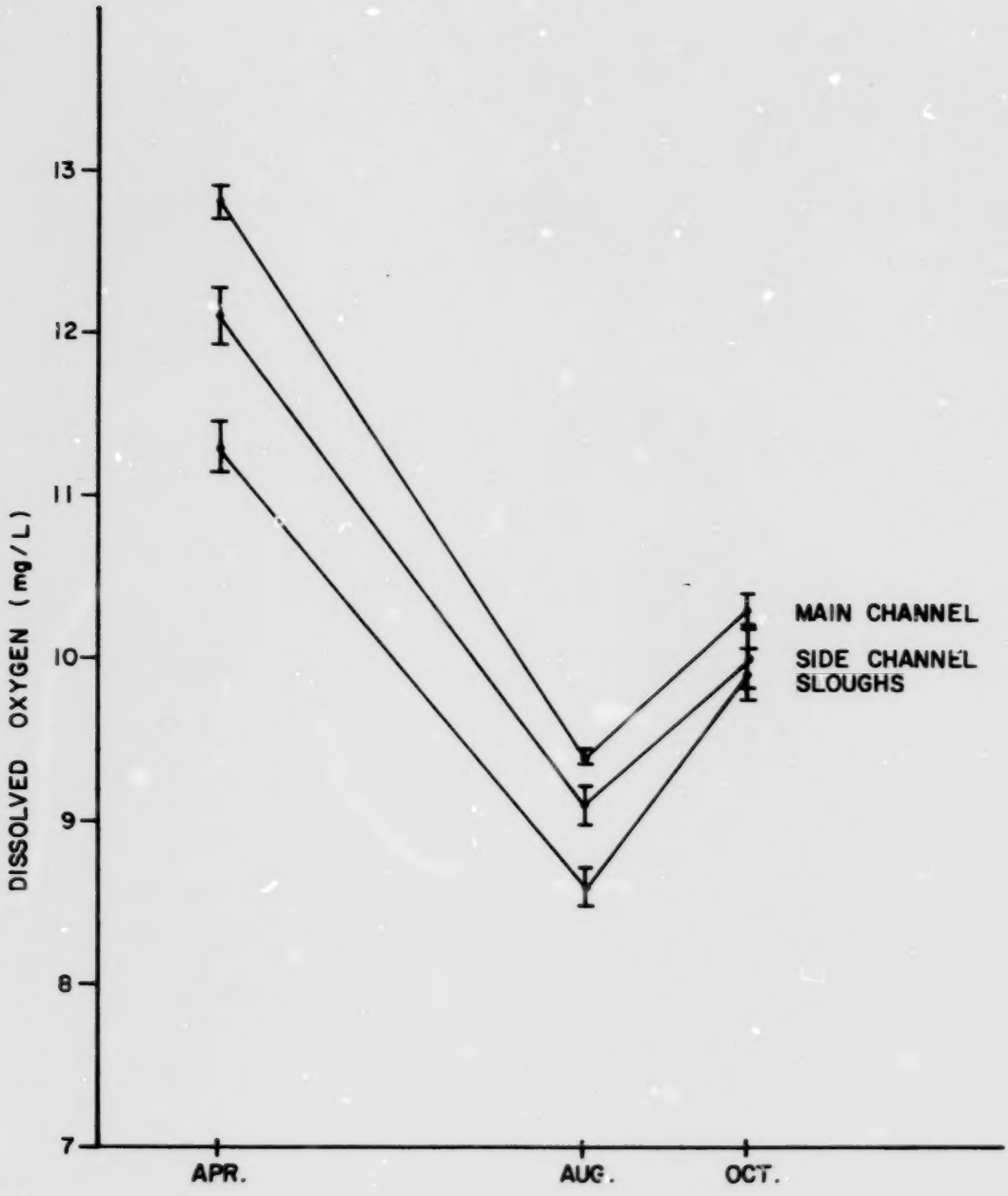


FIGURE 4

AVERAGE PERCENT SATURATION OF DISSOLVED OXYGEN FOR EACH SAMPLING TRIP AND AREA TYPE (WITH STANDARD ERRORS)

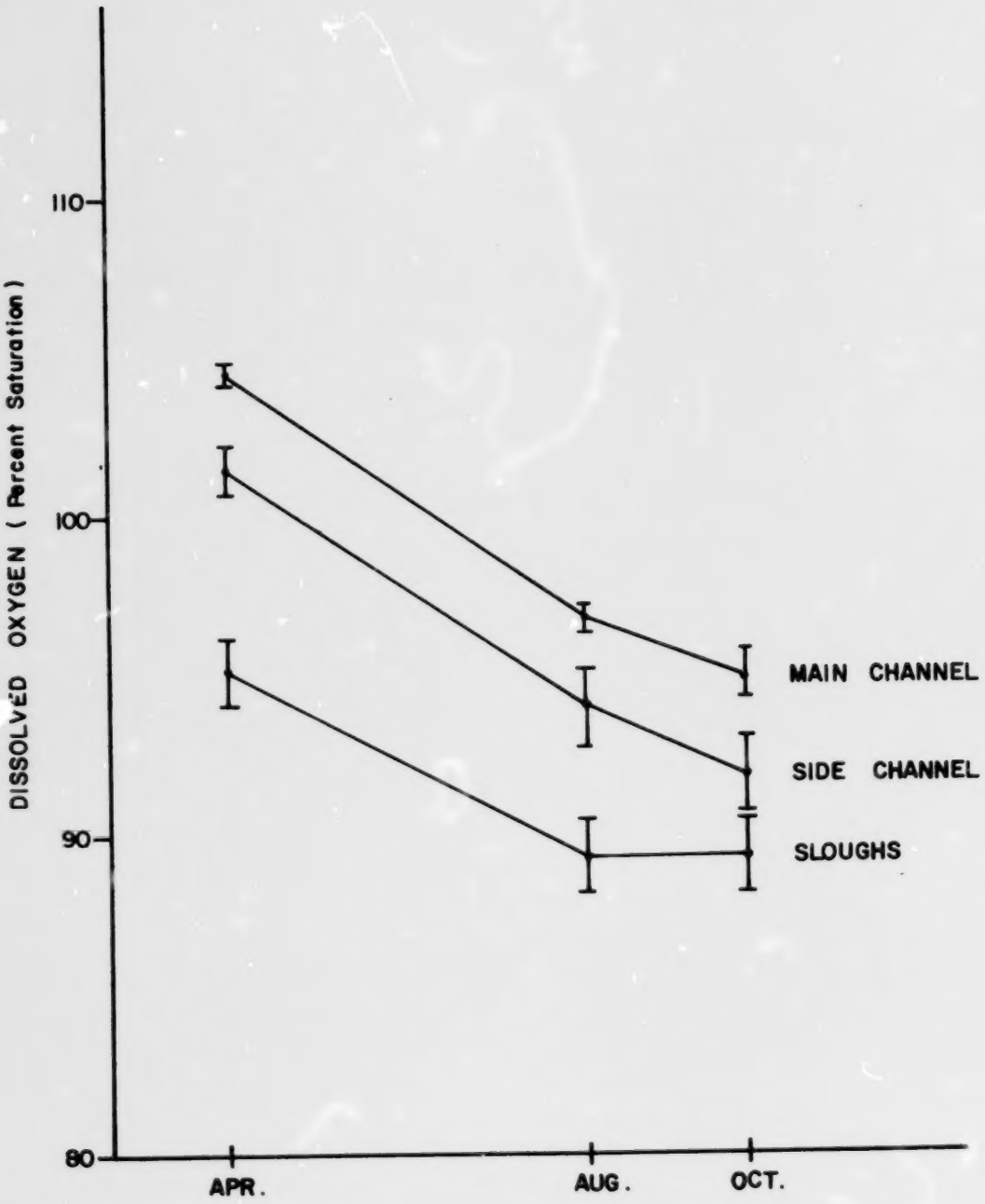


FIGURE 5
AVERAGE CONDUCTIVITY
FOR EACH SAMPLING TRIP AND AREA TYPE
(WITH STANDARD ERRORS)

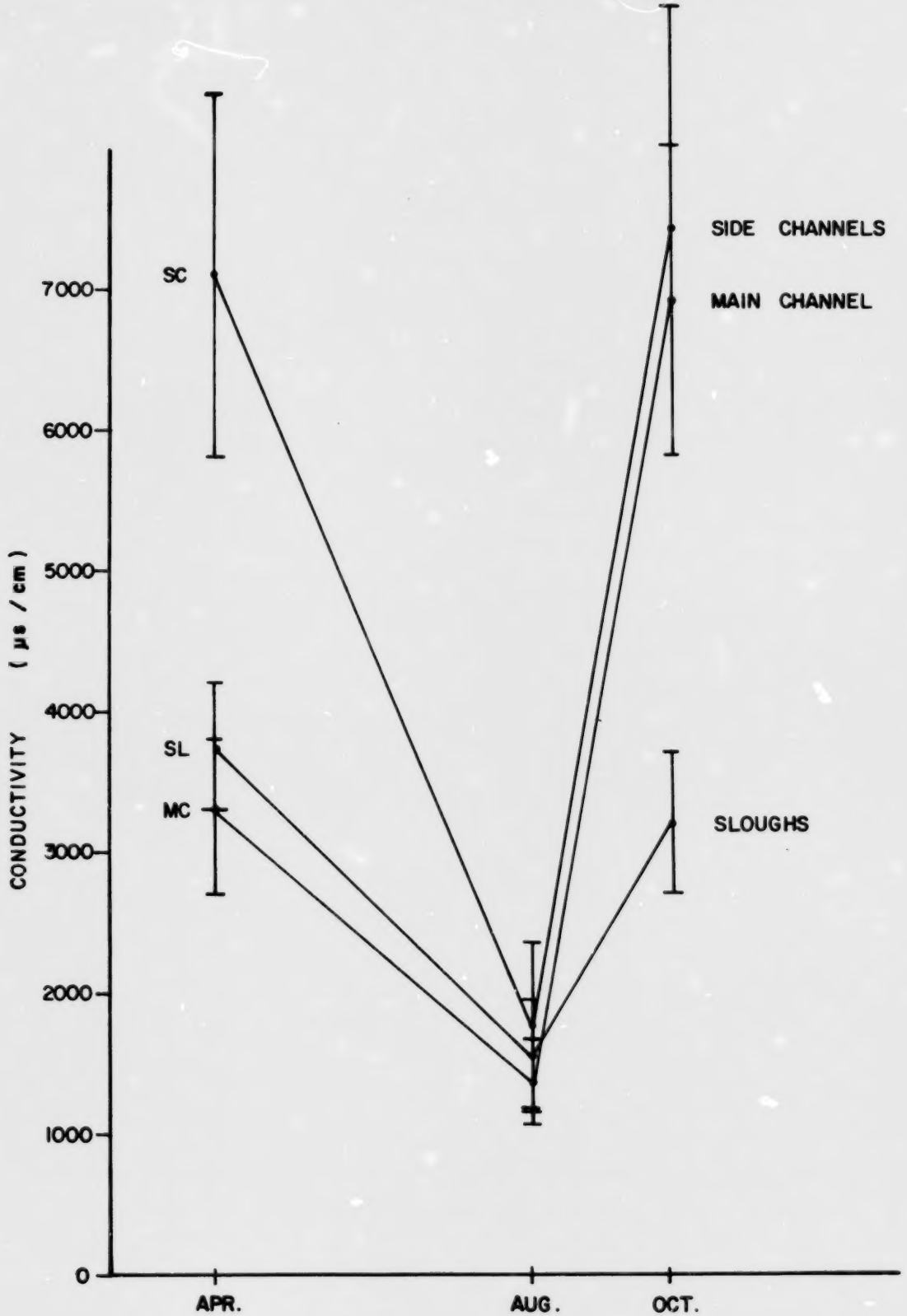


FIGURE 6
AVERAGE pH
FOR EACH SAMPLING TRIP AND AREA TYPE
(WITH STANDARD ERRORS)

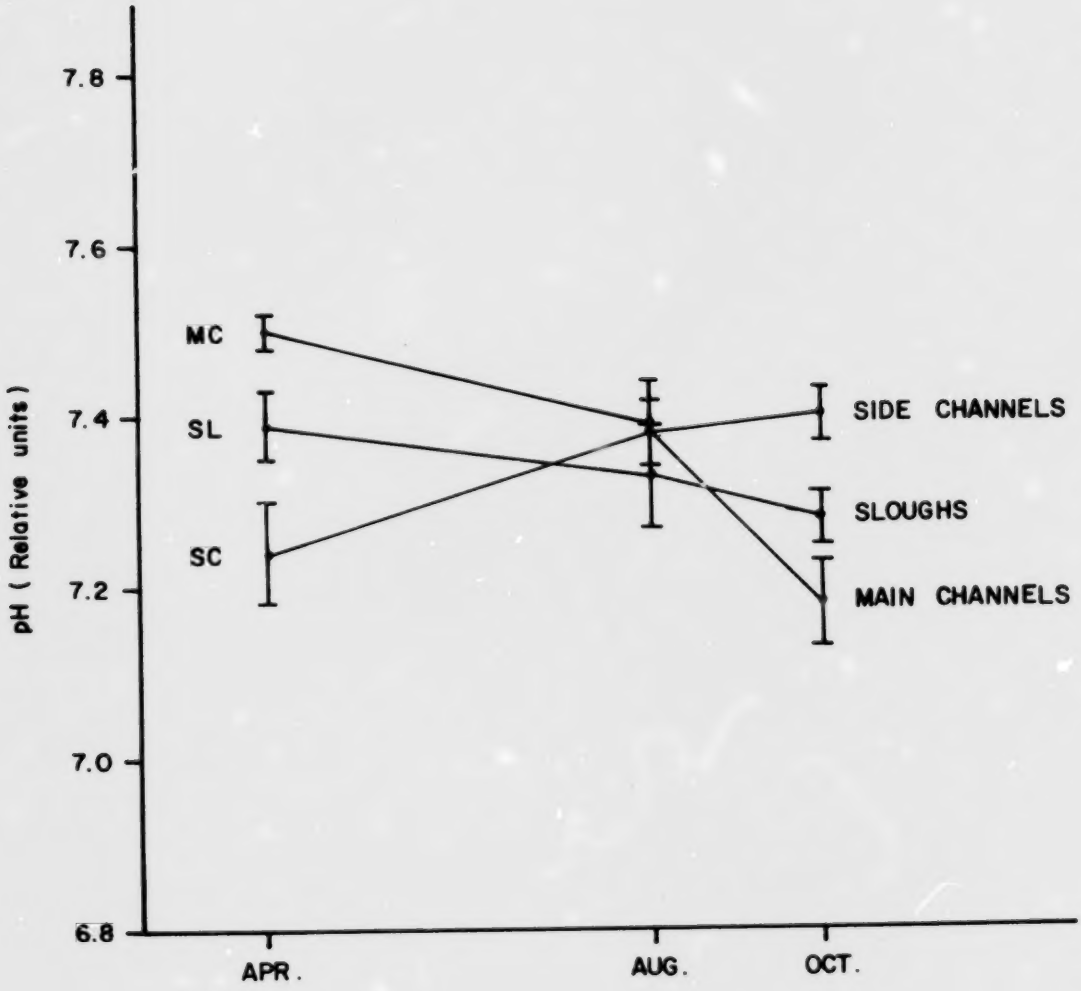
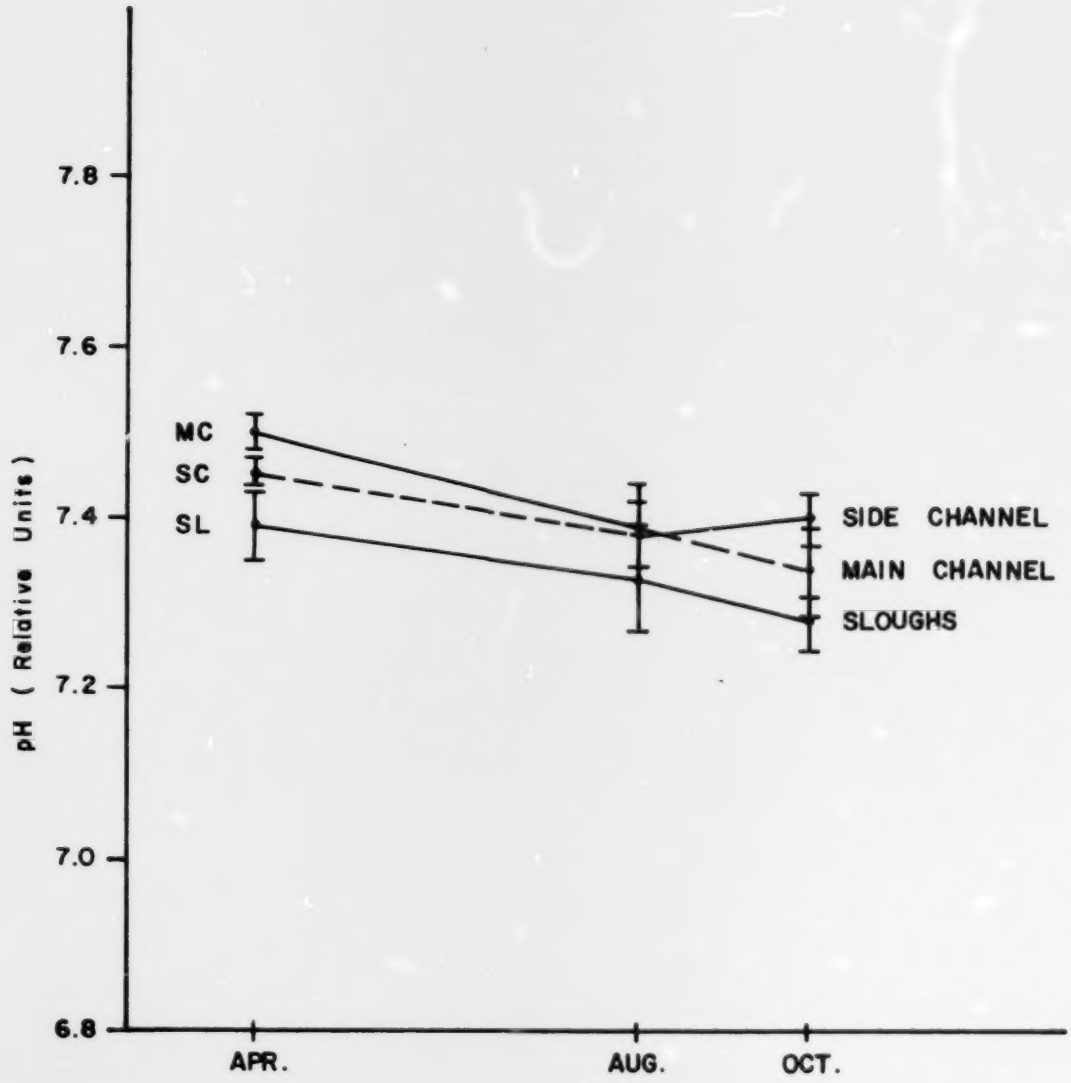


FIGURE 7
MODIFIED AVERAGE pH●
FOR EACH SAMPLING TRIP AND AREA TYPE
(WITH STANDARD ERRORS)



● AS EXPLAINED IN TEXT, SECTION 2.2.5

FIGURE 8
AVERAGE OXIDATION - REDUCTION POTENTIAL
FOR EACH SAMPLING TRIP AND AREA TYPE
(WITH STANDARD ERRORS)

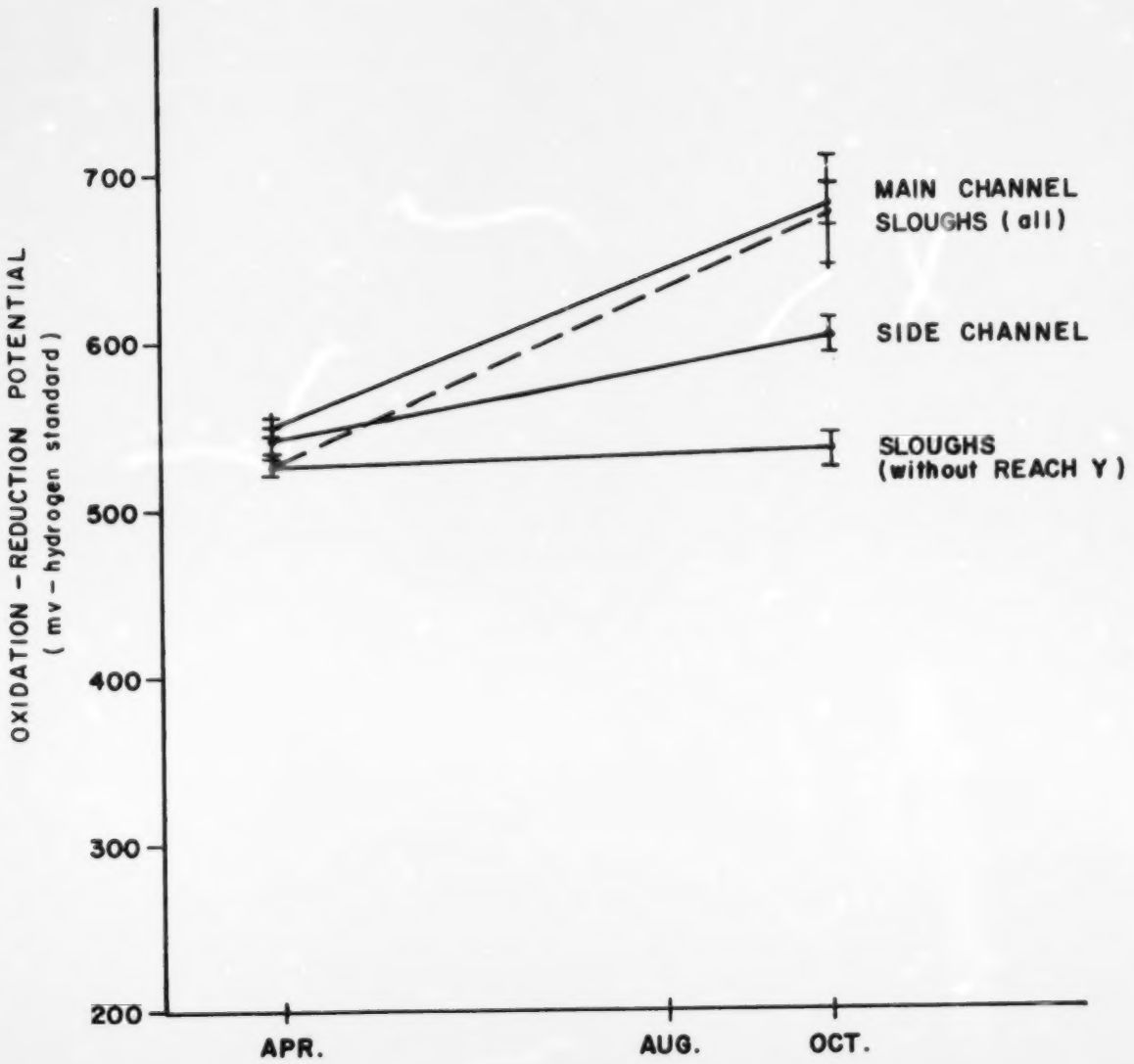


FIGURE 9

TIDE HEIGHTS AT POINT ATKINSON
DURING THE THREE 1978 SAMPLING TRIPS

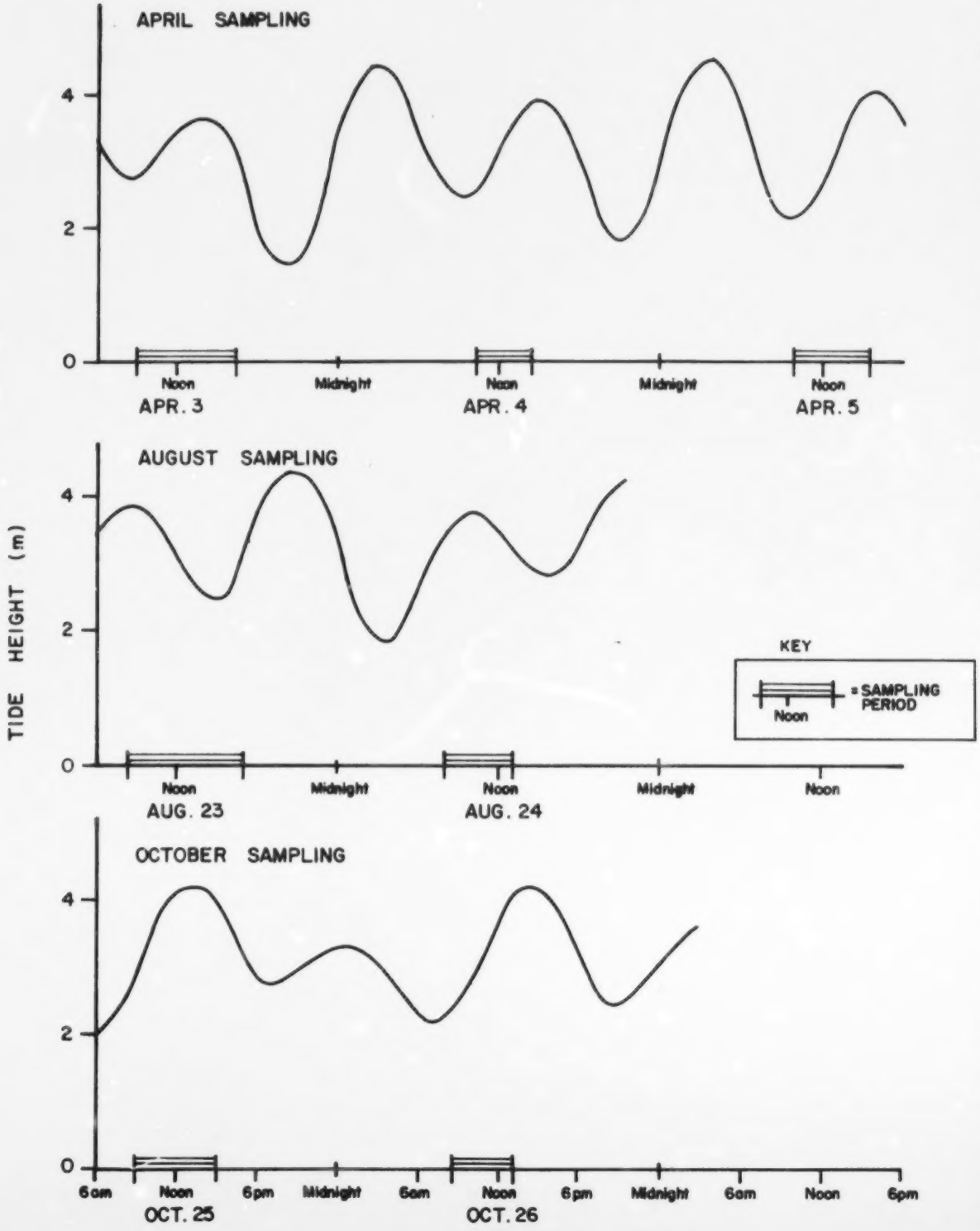


FIGURE 10

HOURLY DEPTH PROFILES OF TEMPERATURE FROM APRIL 6-7, 1977 SAMPLING TRIP AT SITE 0920181

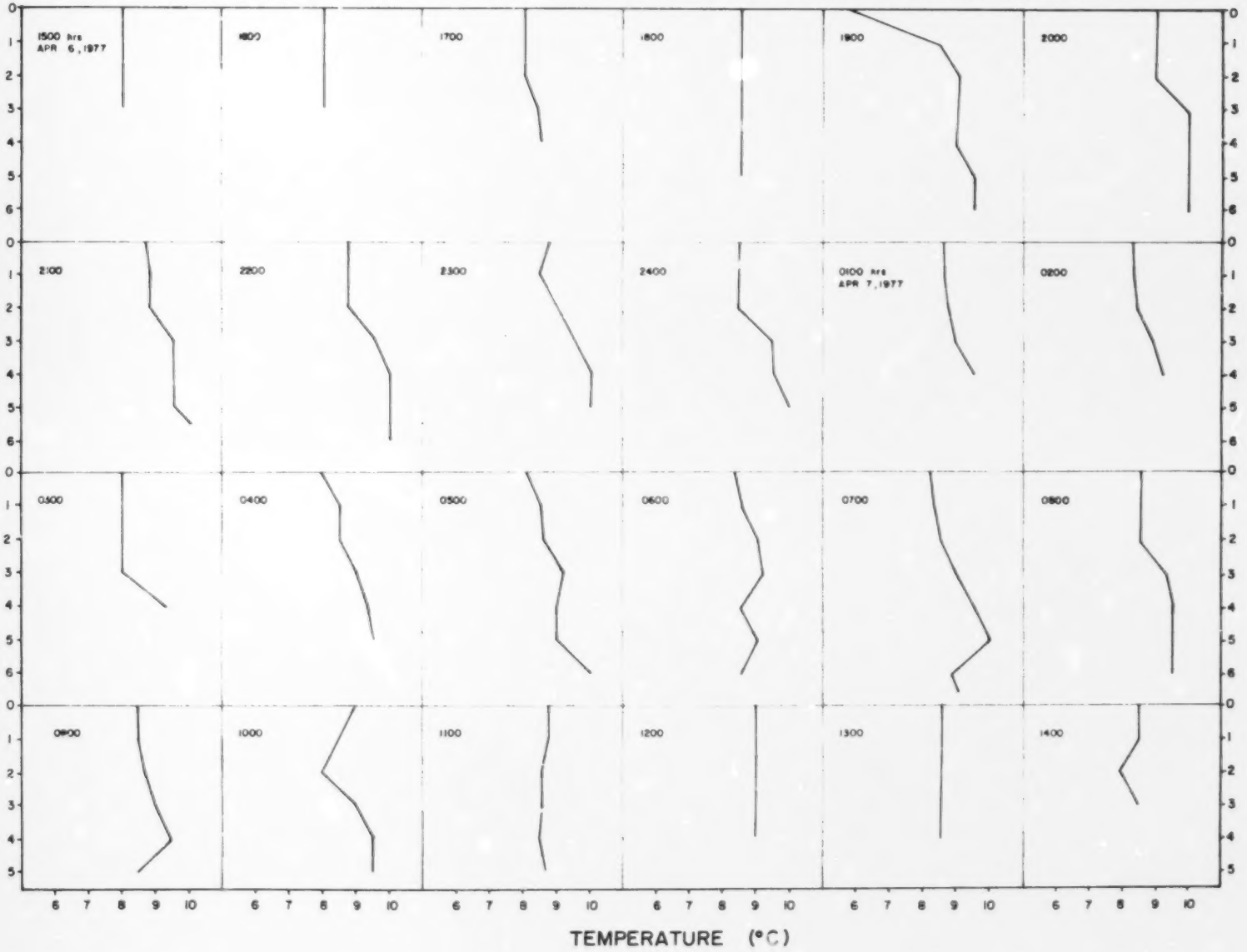


FIGURE 11

HOURLY DEPTH PROFILES OF DISSOLVED OXYGEN FROM APRIL 6-7, 1977 SAMPLING TRIP AT SITE 0920181

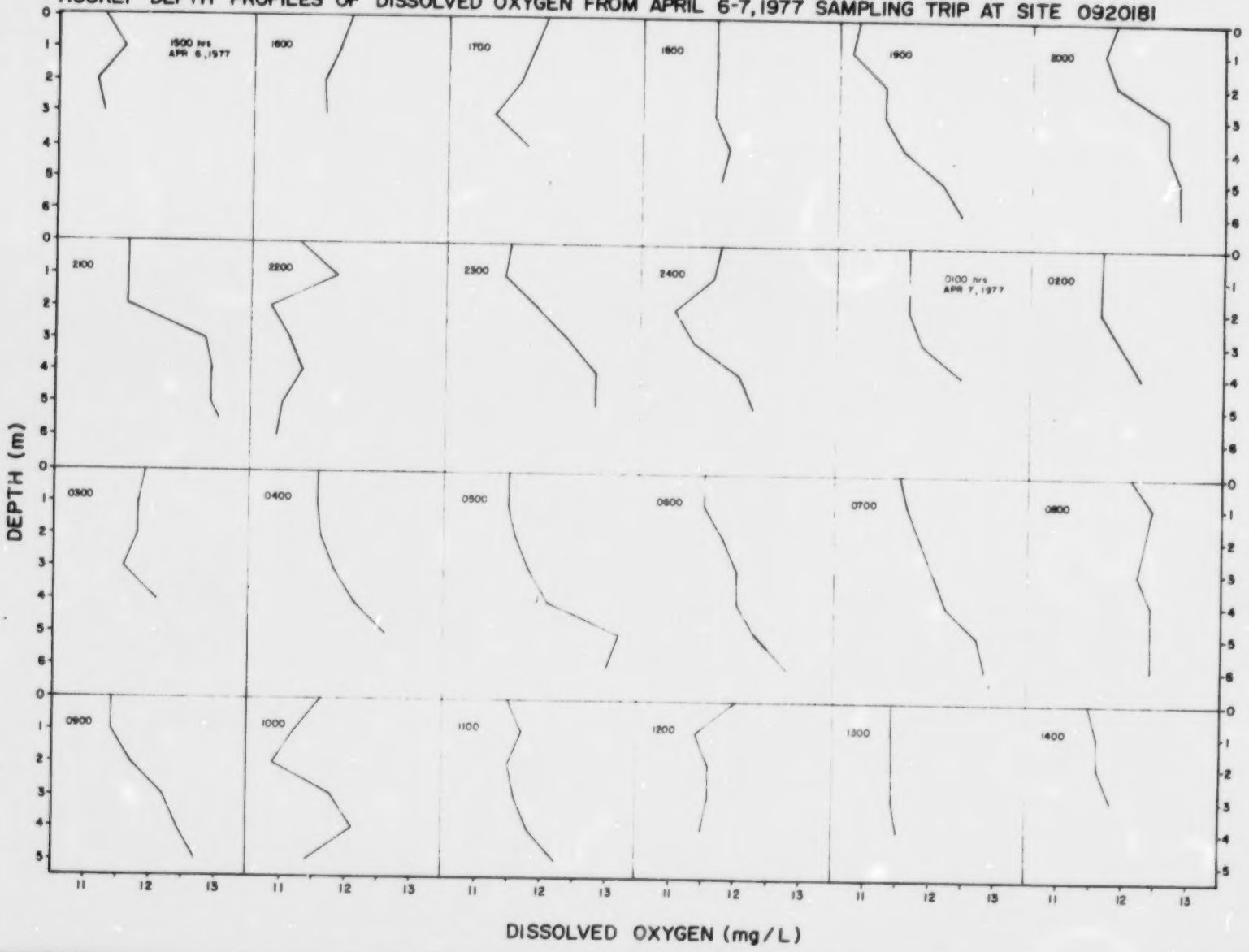


FIGURE 12

HOURLY DEPTH PROFILES OF PERCENT DISSOLVED OXYGEN FROM APRIL 6-7, 1977 SAMPLING TRIP AT SITE 0920181

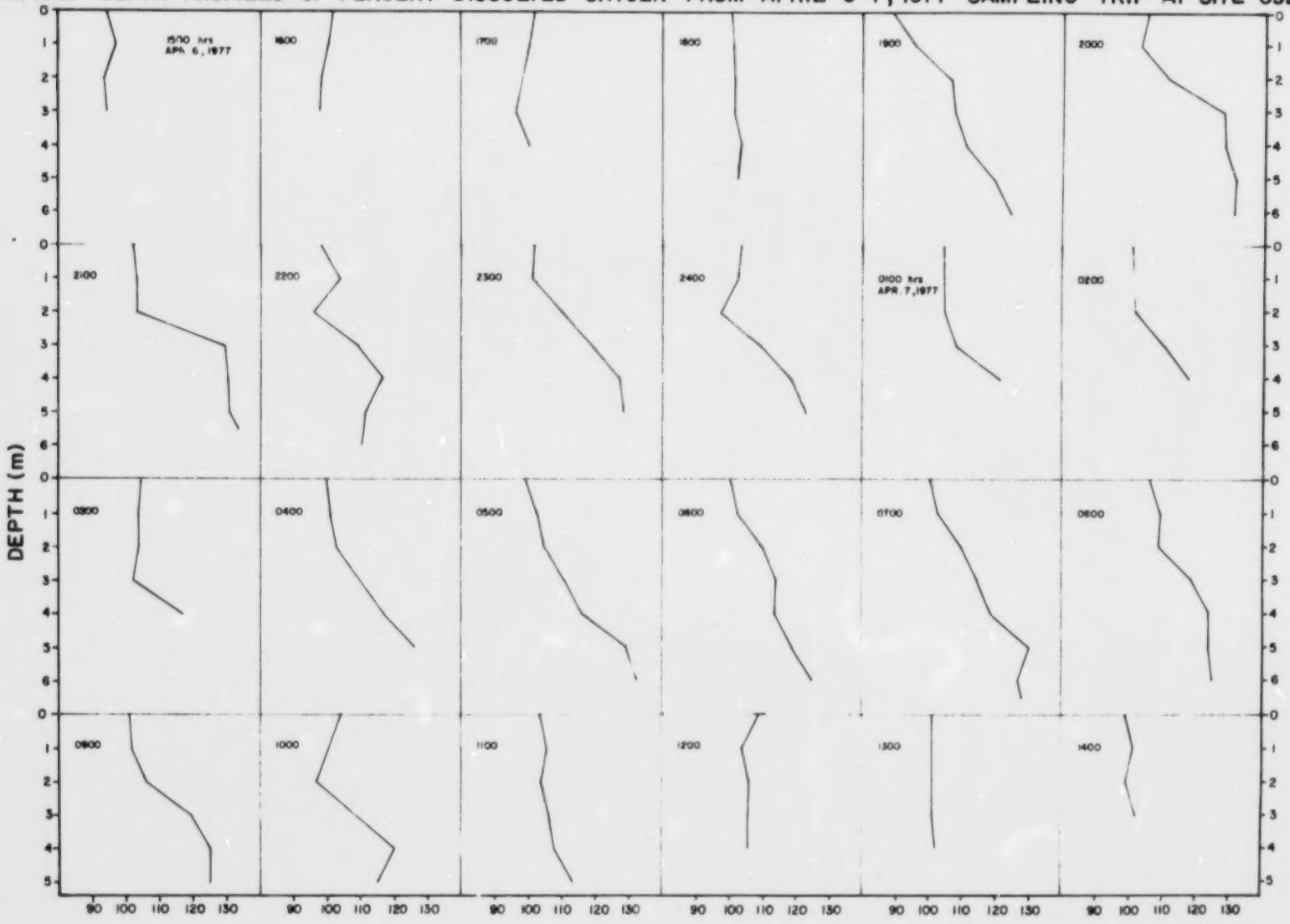


FIGURE 13

HOURLY DEPTH PROFILES OF SALINITY FROM APRIL 6-7, 1977 SAMPLING TRIP AT SITE 0920181

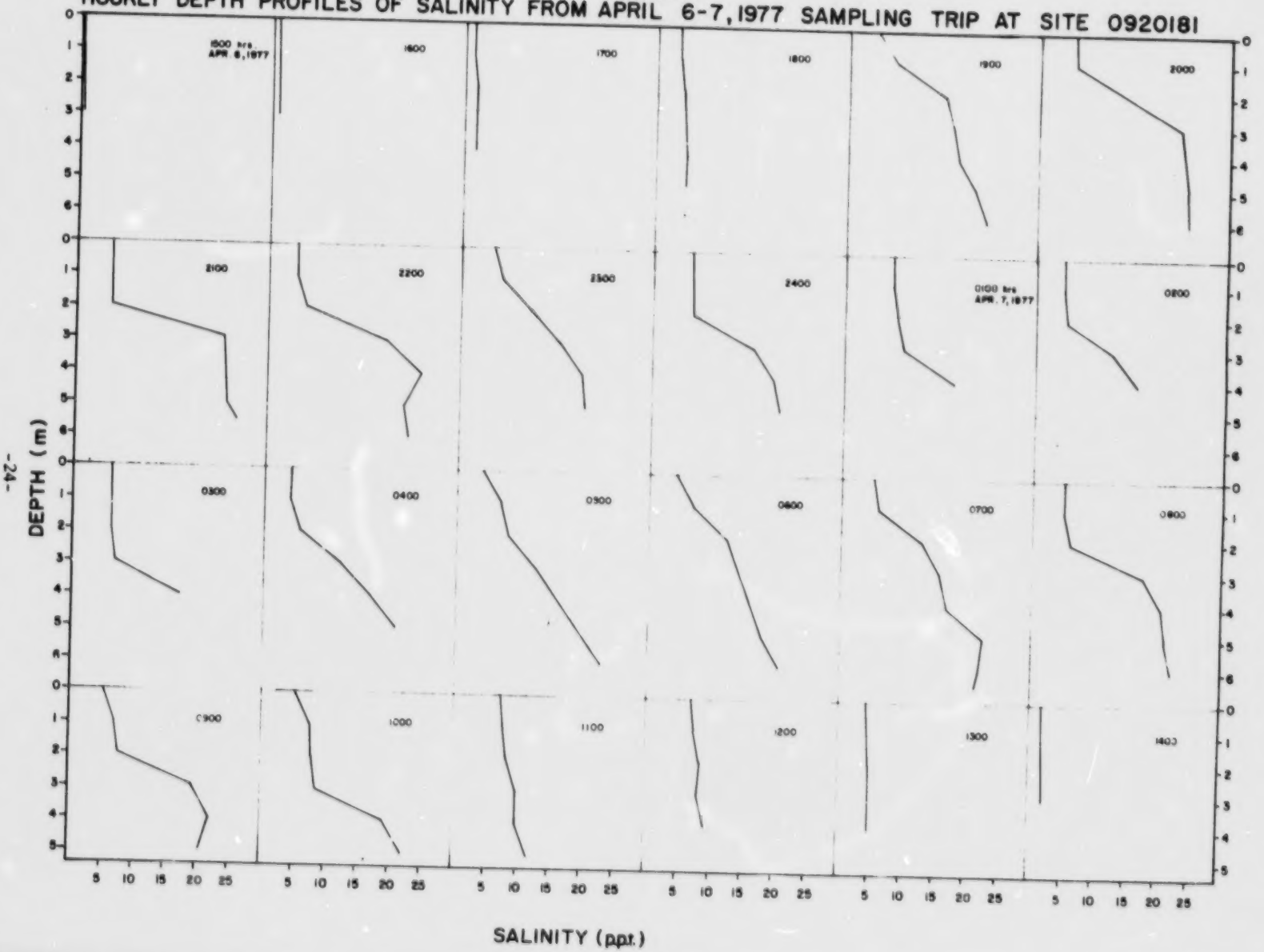


FIGURE 14

HOURLY DEPTH PROFILES OF pH FROM APRIL 6-7, 1977 SAMPLING TRIP AT SITE 0920181

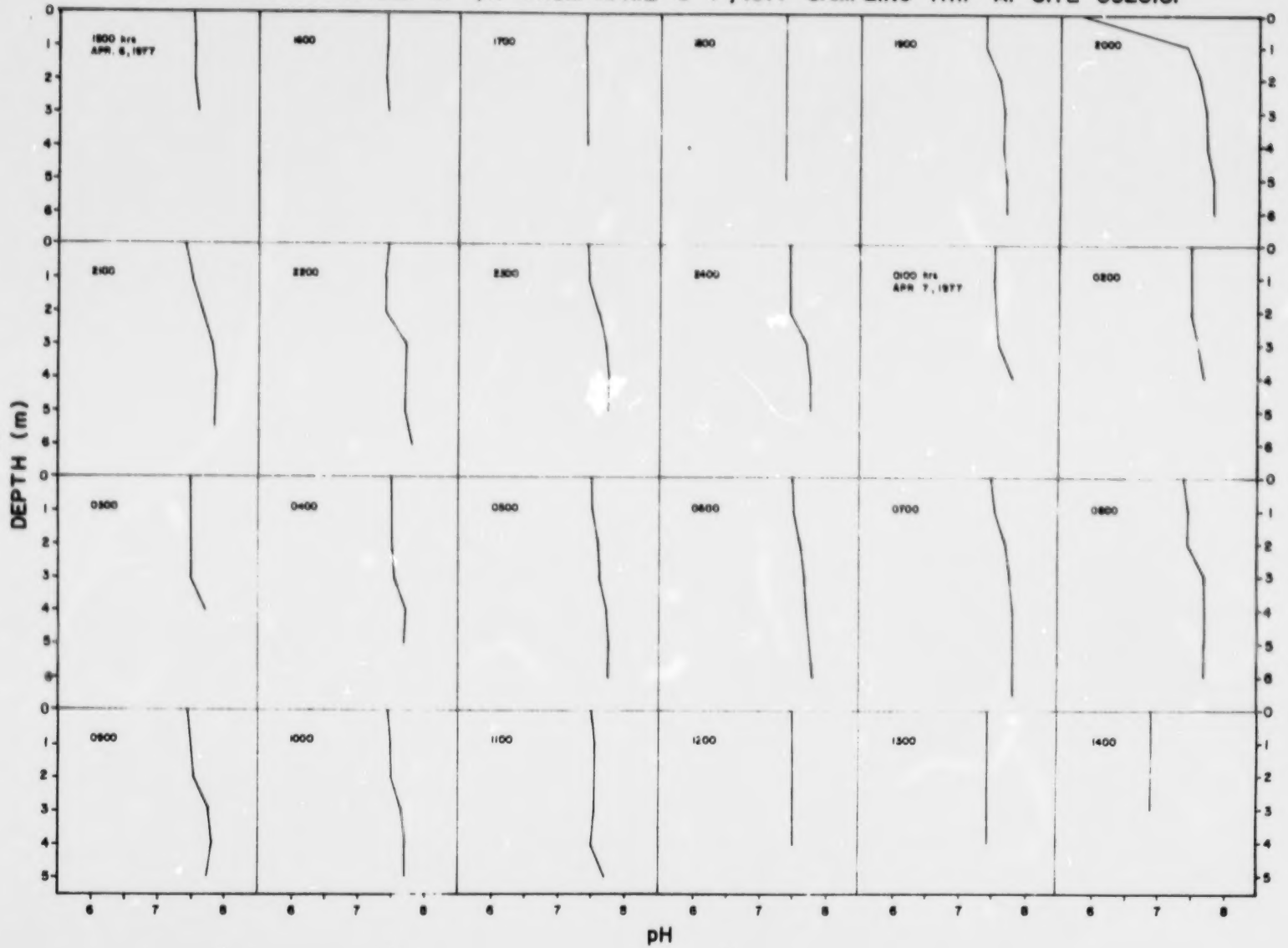


FIGURE 15

HOURLY DEPTH PROFILES OF TEMPERATURE FROM OCT. 31 - NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

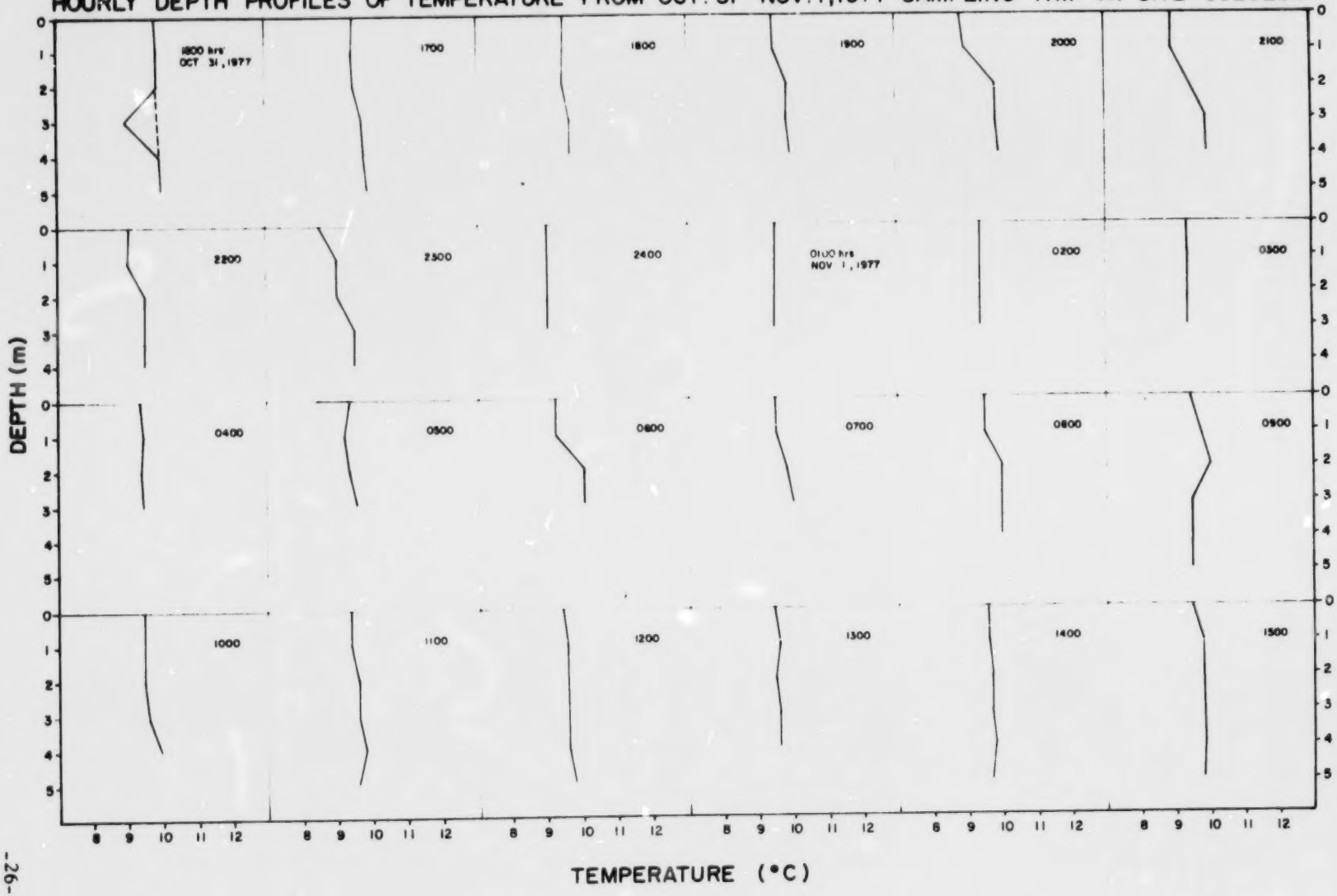


FIGURE 16

HOURLY DEPTH PROFILES OF DISSOLVED OXYGEN FROM OCT. 31 – NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

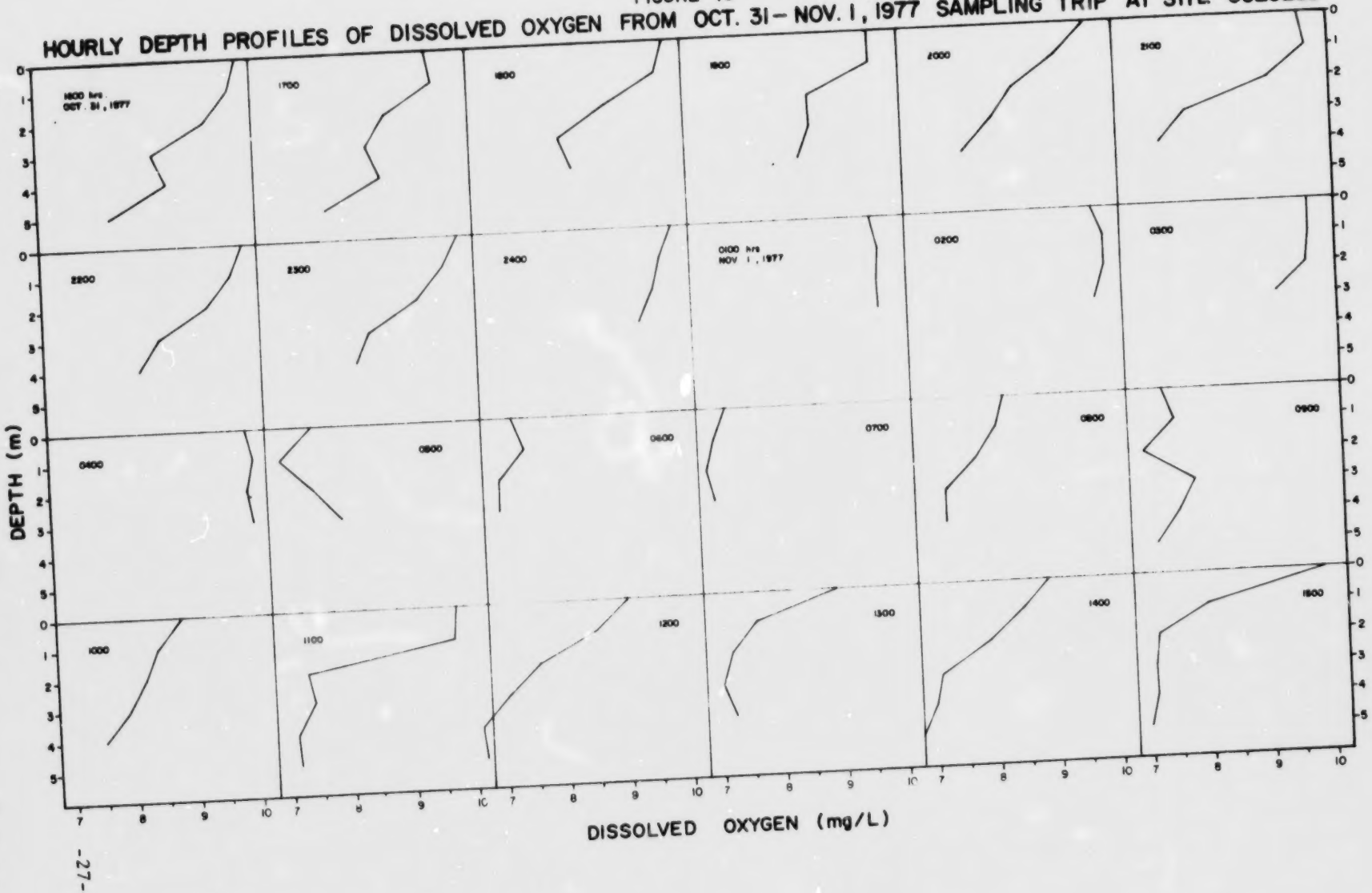


FIGURE 17

HOURLY DEPTH PROFILES OF PERCENT DISSOLVED OXYGEN FROM OCT. 31- NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

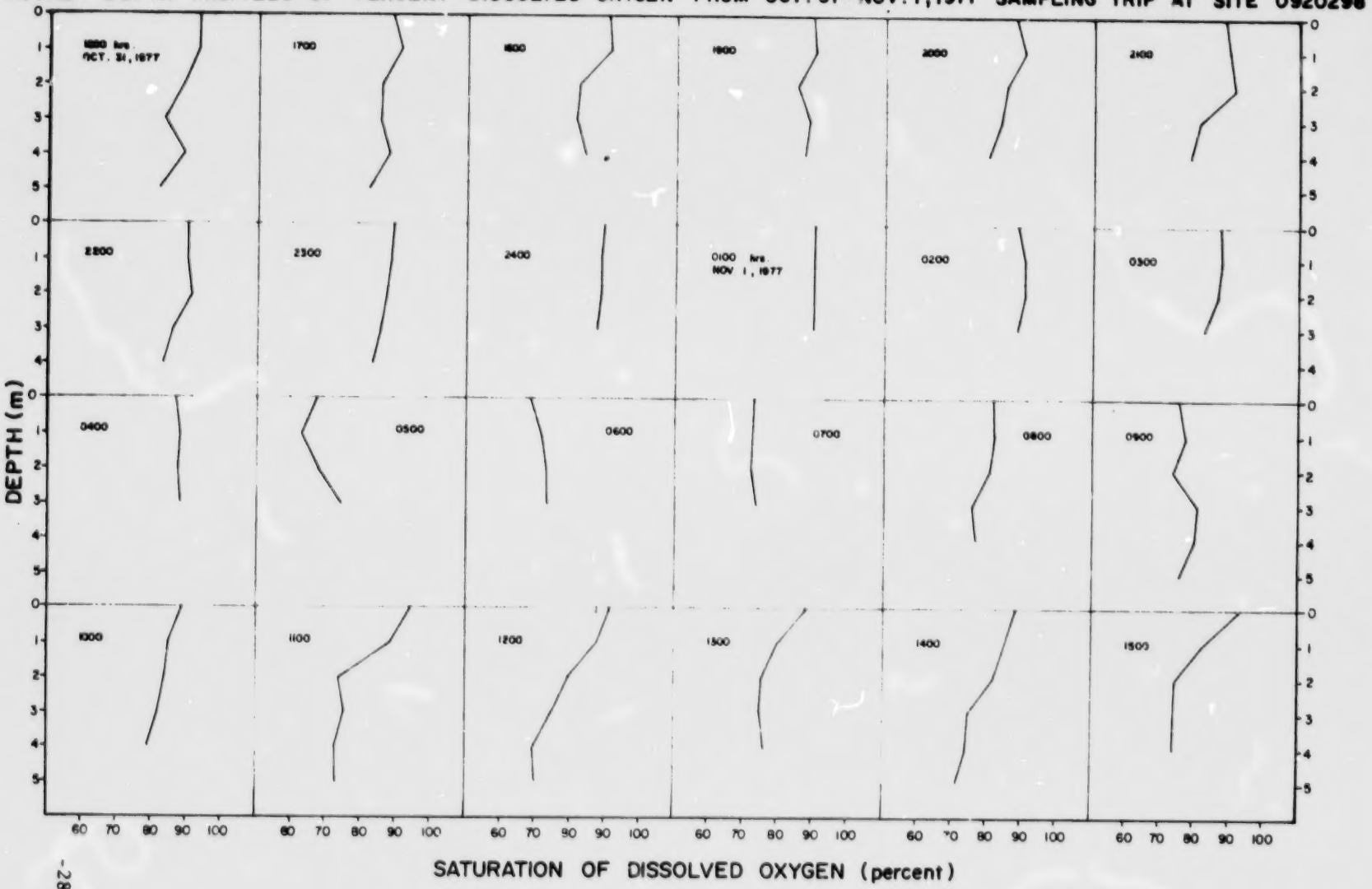


FIGURE 18

HOURLY DEPTH PROFILES OF SALINITY FROM OCT. 31 - NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

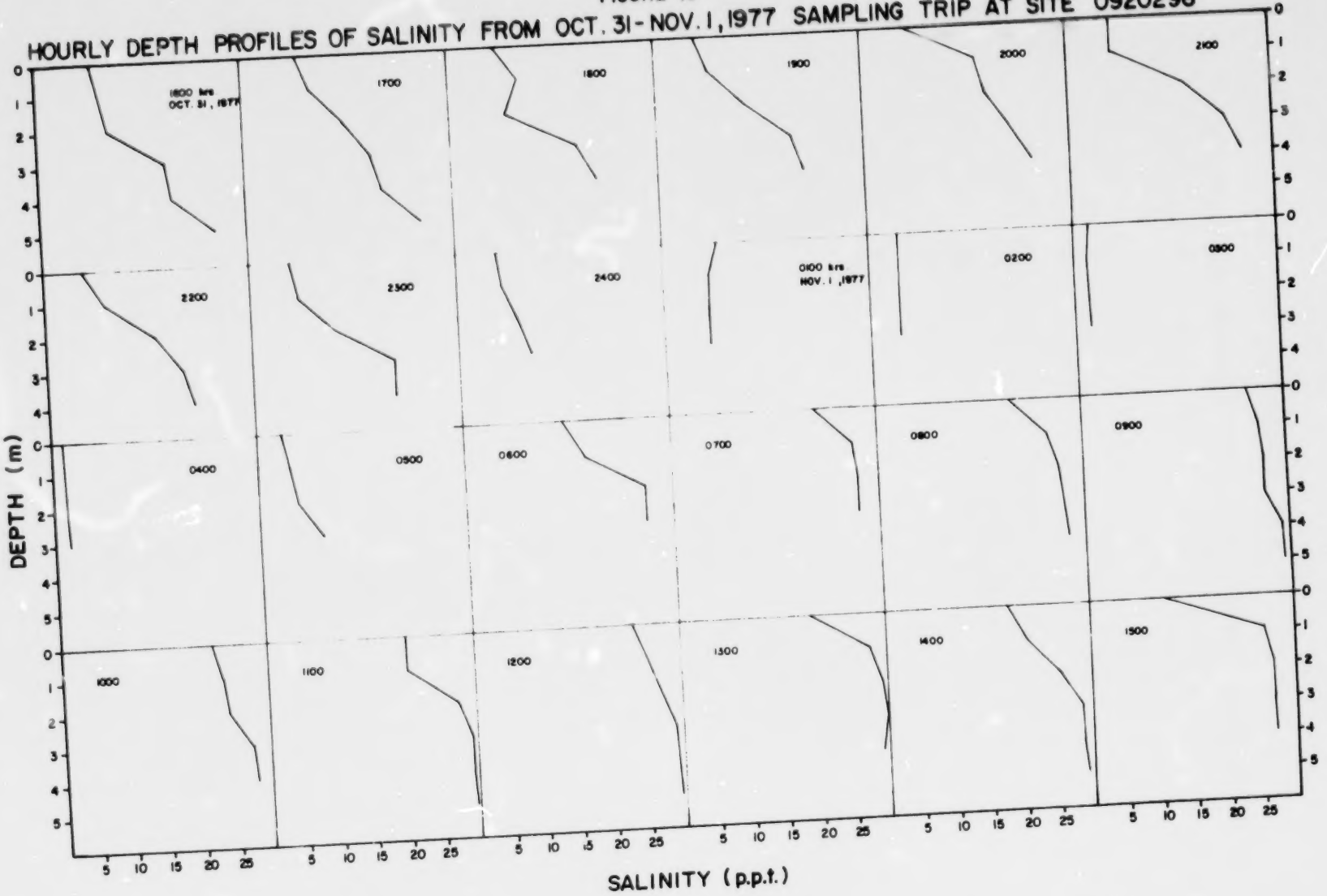


FIGURE 19

HOURLY DEPTH PROFILES OF pH FROM OCT. 31–NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

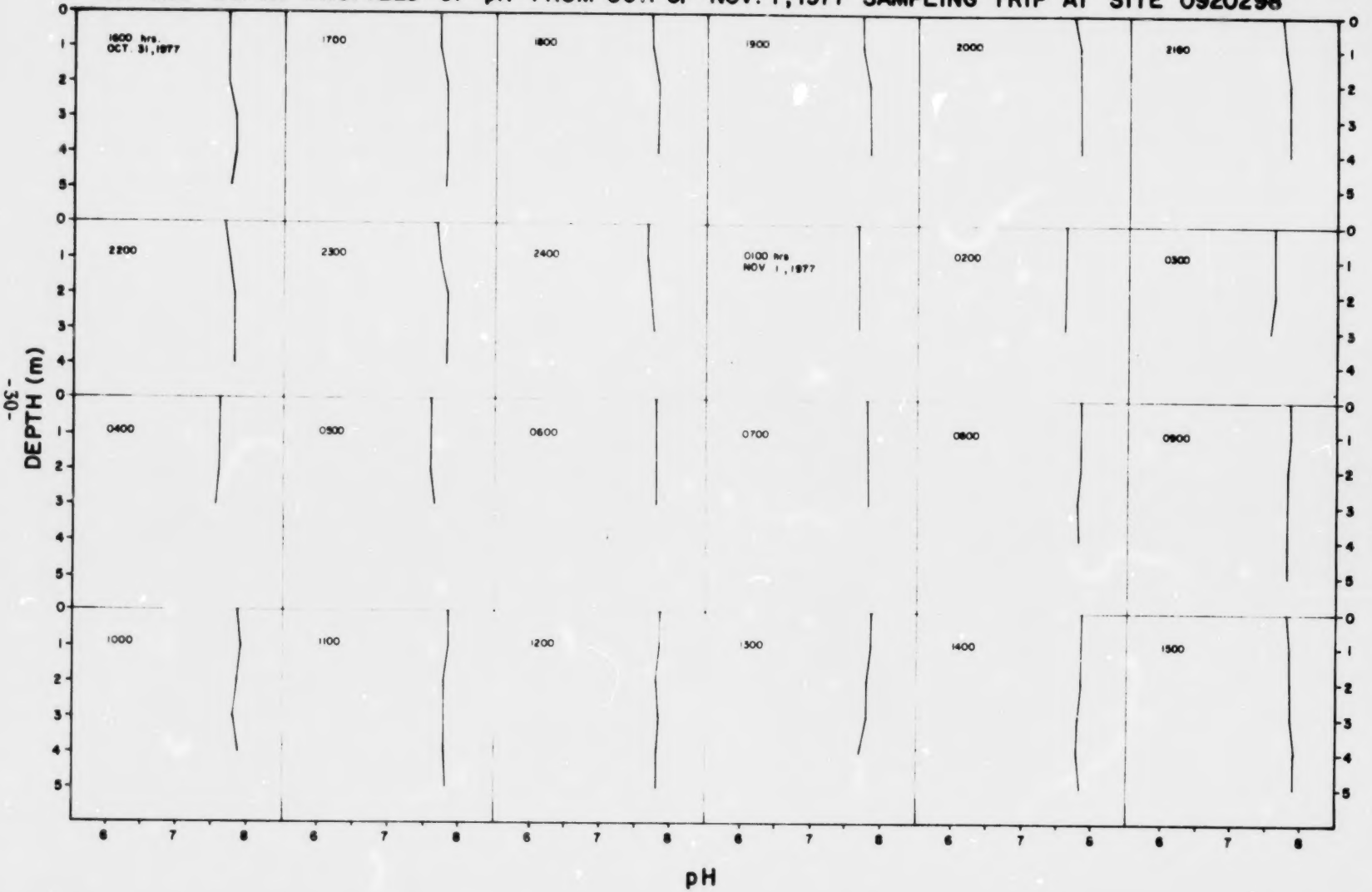


FIGURE 20

TIDE HEIGHTS DURING THE TWO TWENTY-FOUR HOUR SAMPLING TRIPS (WITH DAILY RIVER FLOW)

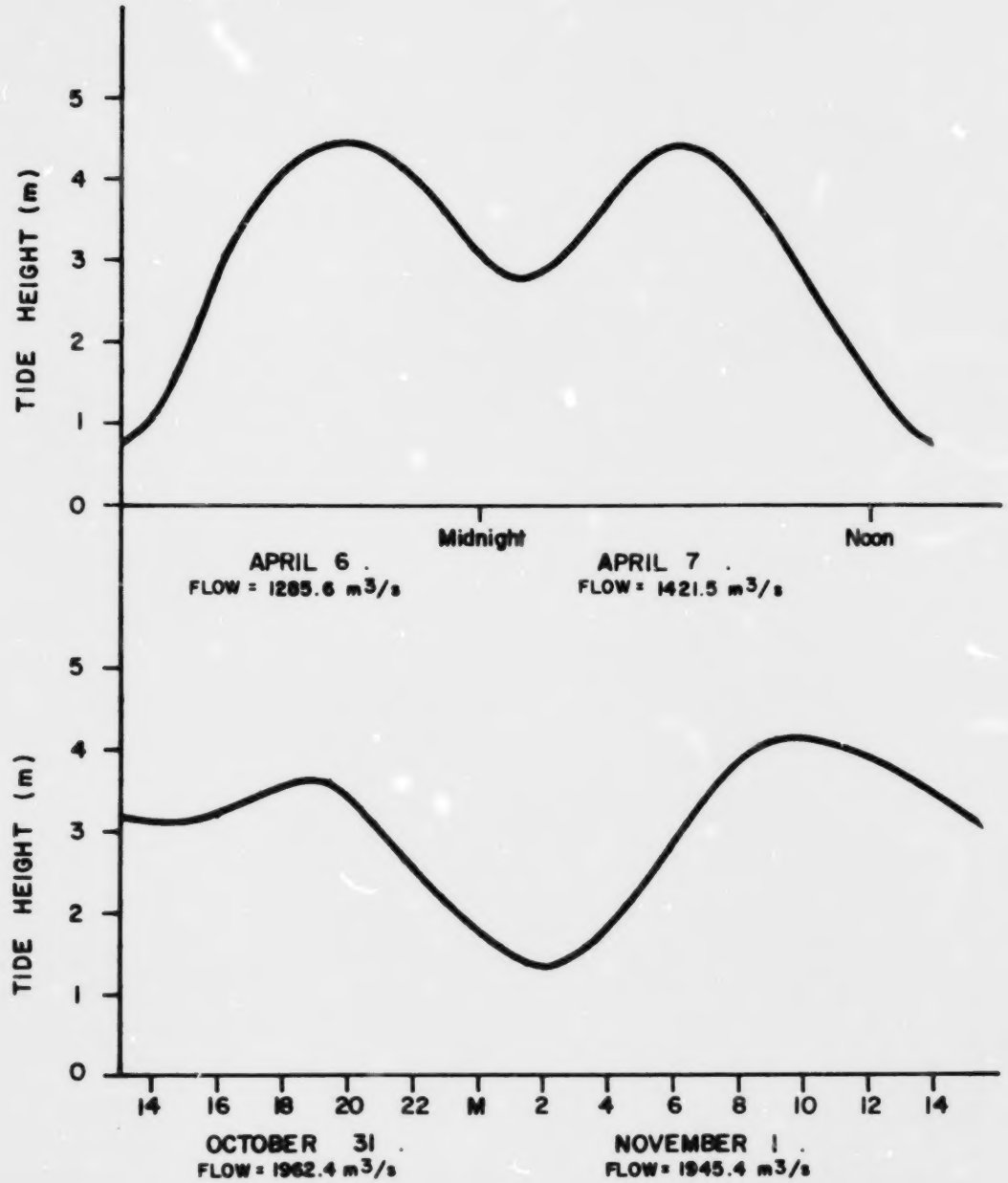


FIGURE 21

HOURLY VALUES OF SUSPENDED AND VOLATILE SUSPENDED SOLIDS AND INORGANIC PARTICULATE DURING OCT. 31 – NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

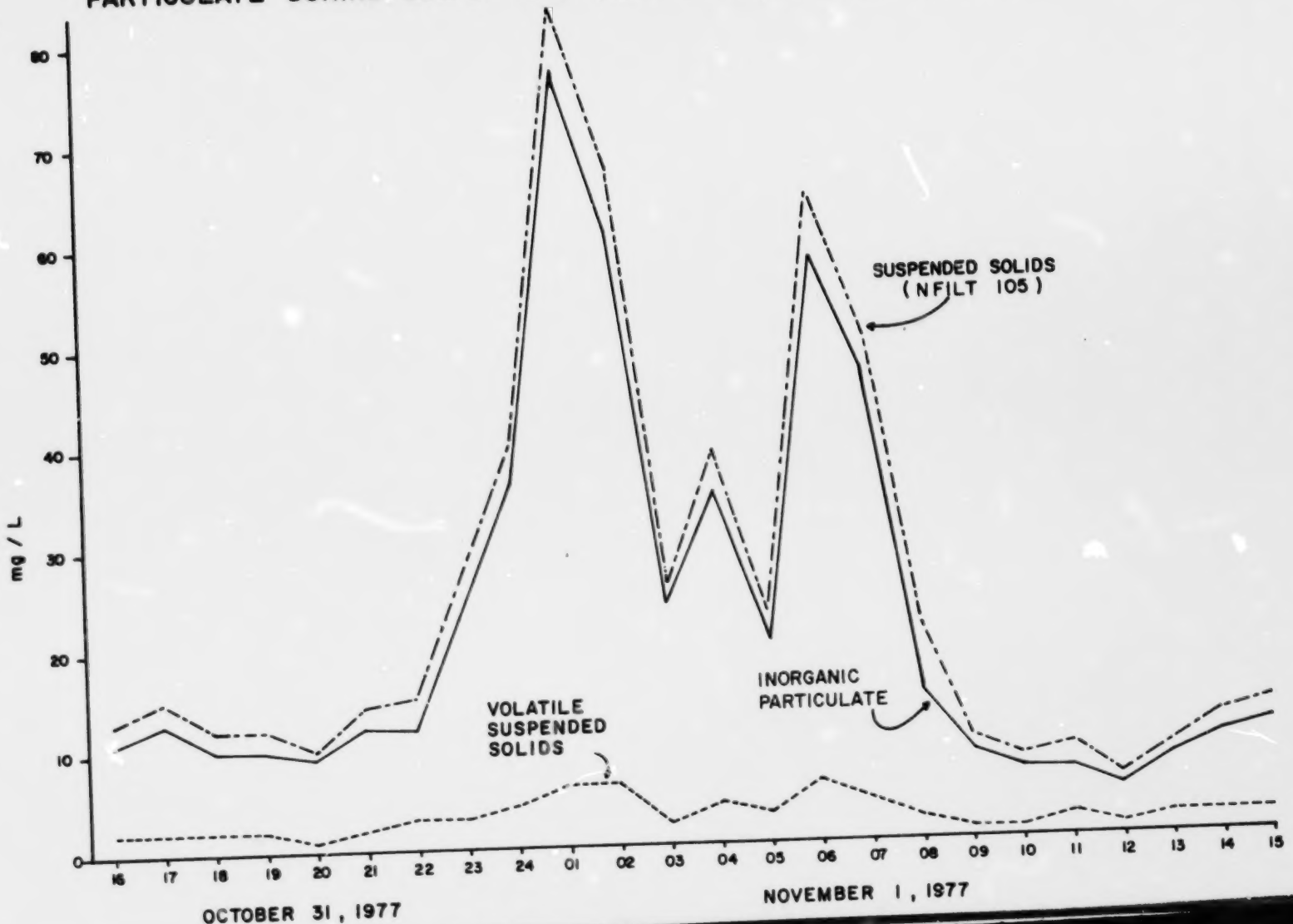


FIGURE 22

HOURLY VALUES OF INORGANIC AND TOTAL ORGANIC CARBON DURING OCT. 31 - NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

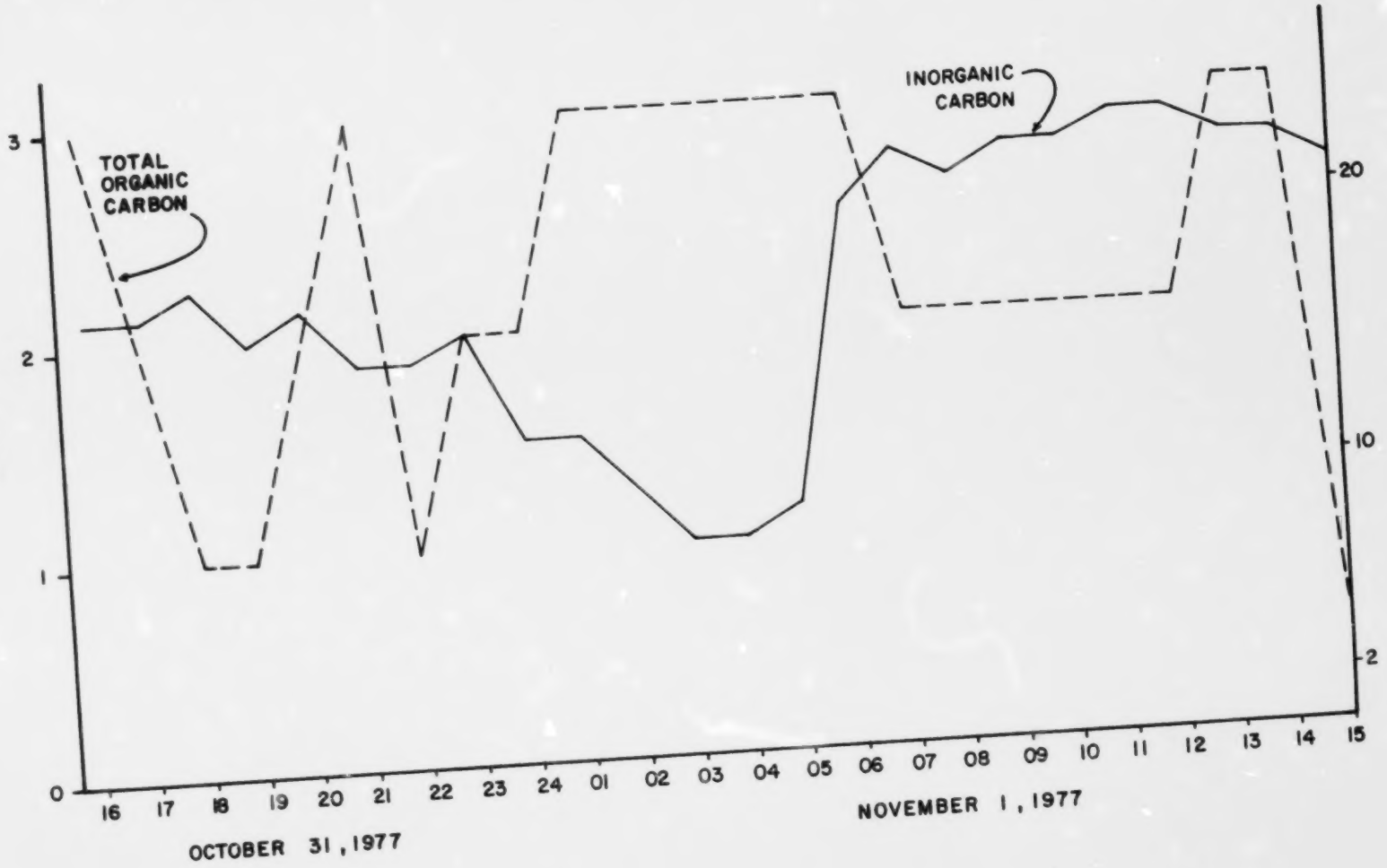


FIGURE 23

HOURLY VALUES OF DISSOLVED AND PARTICULATE CARBON
DURING OCT. 31-NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

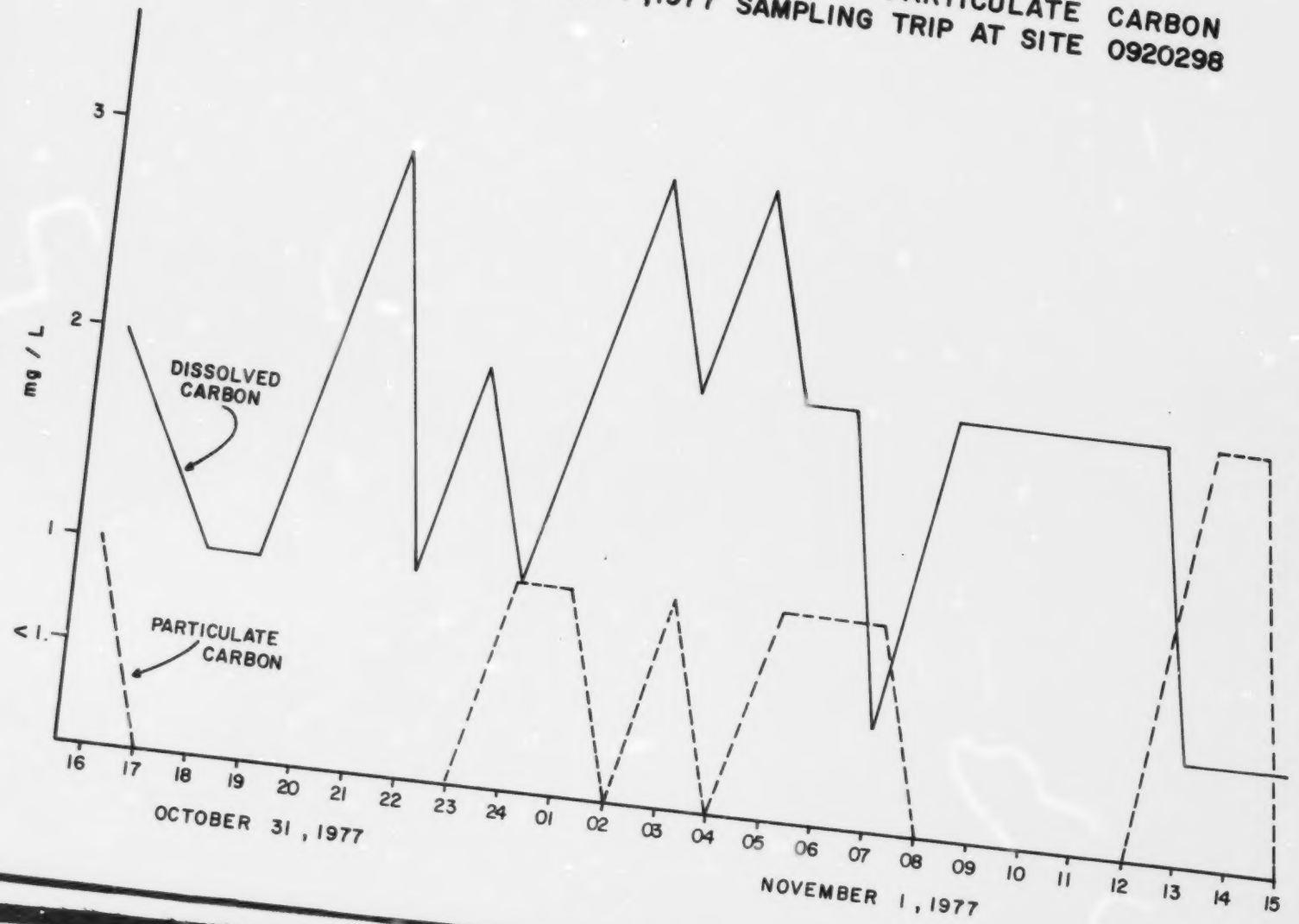


FIGURE 24

HOURLY VALUES OF TOTAL ORGANIC AND PARTICULATE NITROGEN AND AMMONIA DURING OCT. 31 - NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

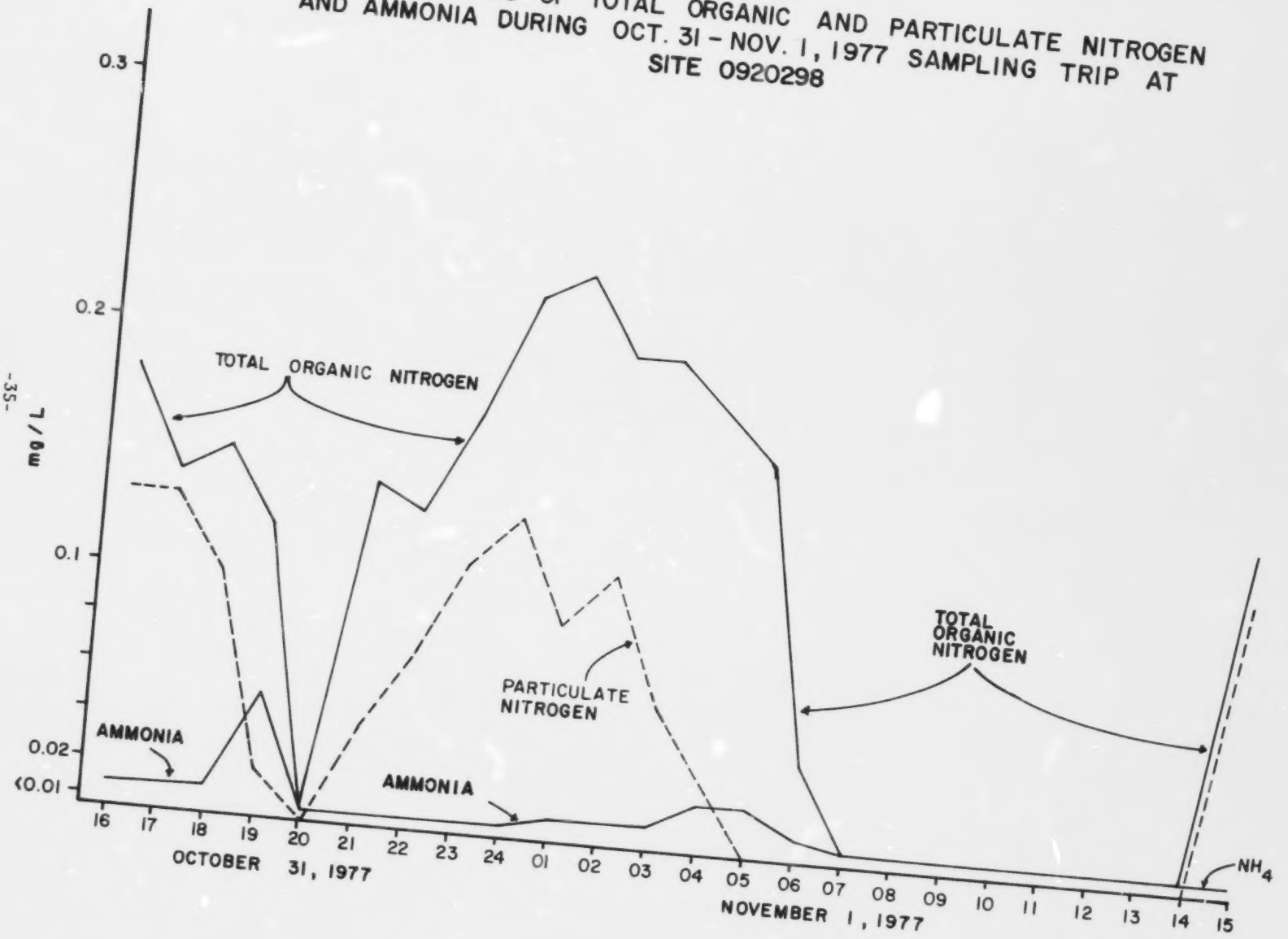


FIGURE 25
HOURLY VALUES OF NITRATE/NITRITE AND DISSOLVED ORGANIC NITROGEN DURING OCT. 31 - NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

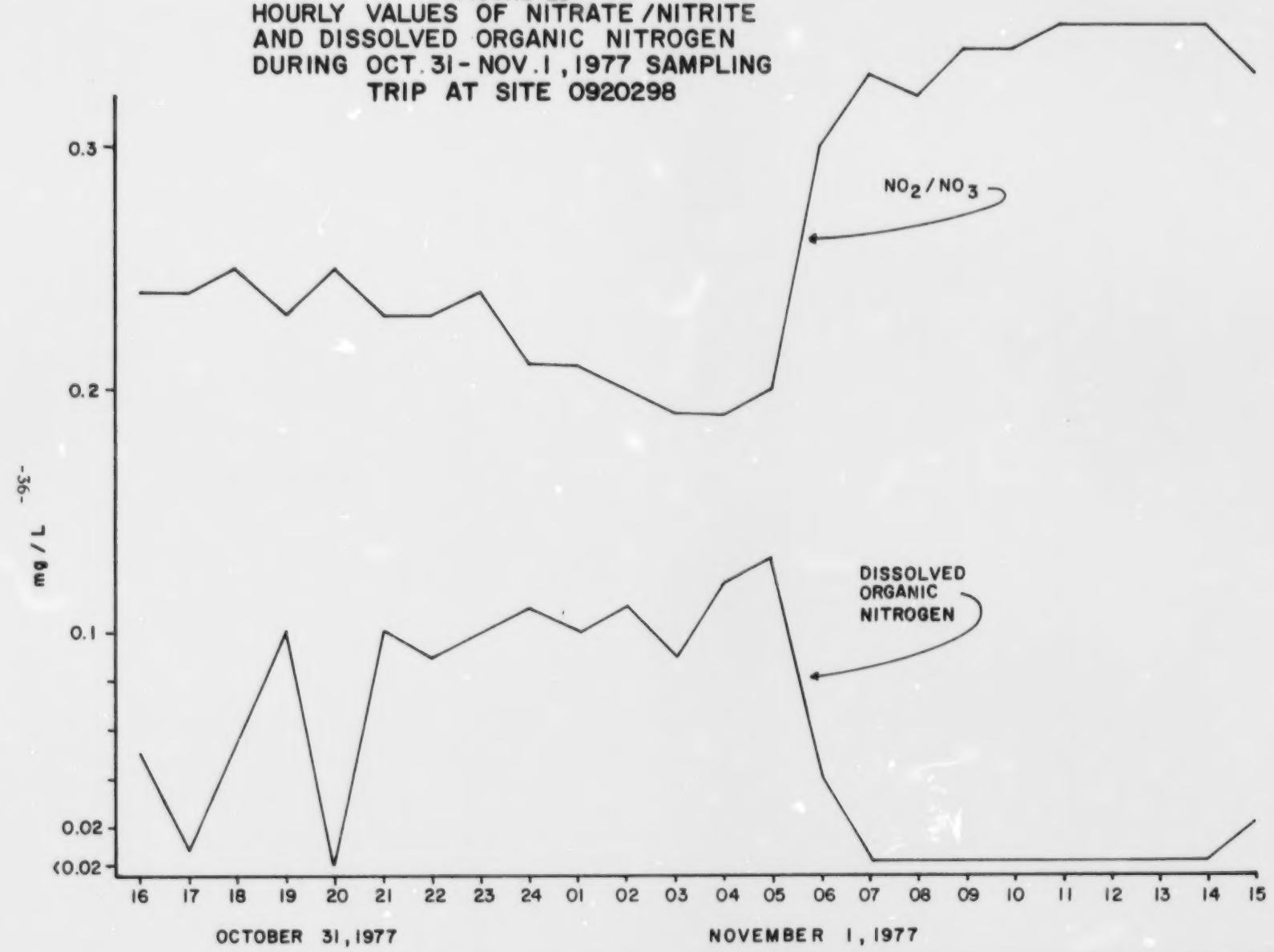


FIGURE 26

HOURLY VALUES OF TOTAL AND DISSOLVED PHOSPHORUS DURING OCT. 31-NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

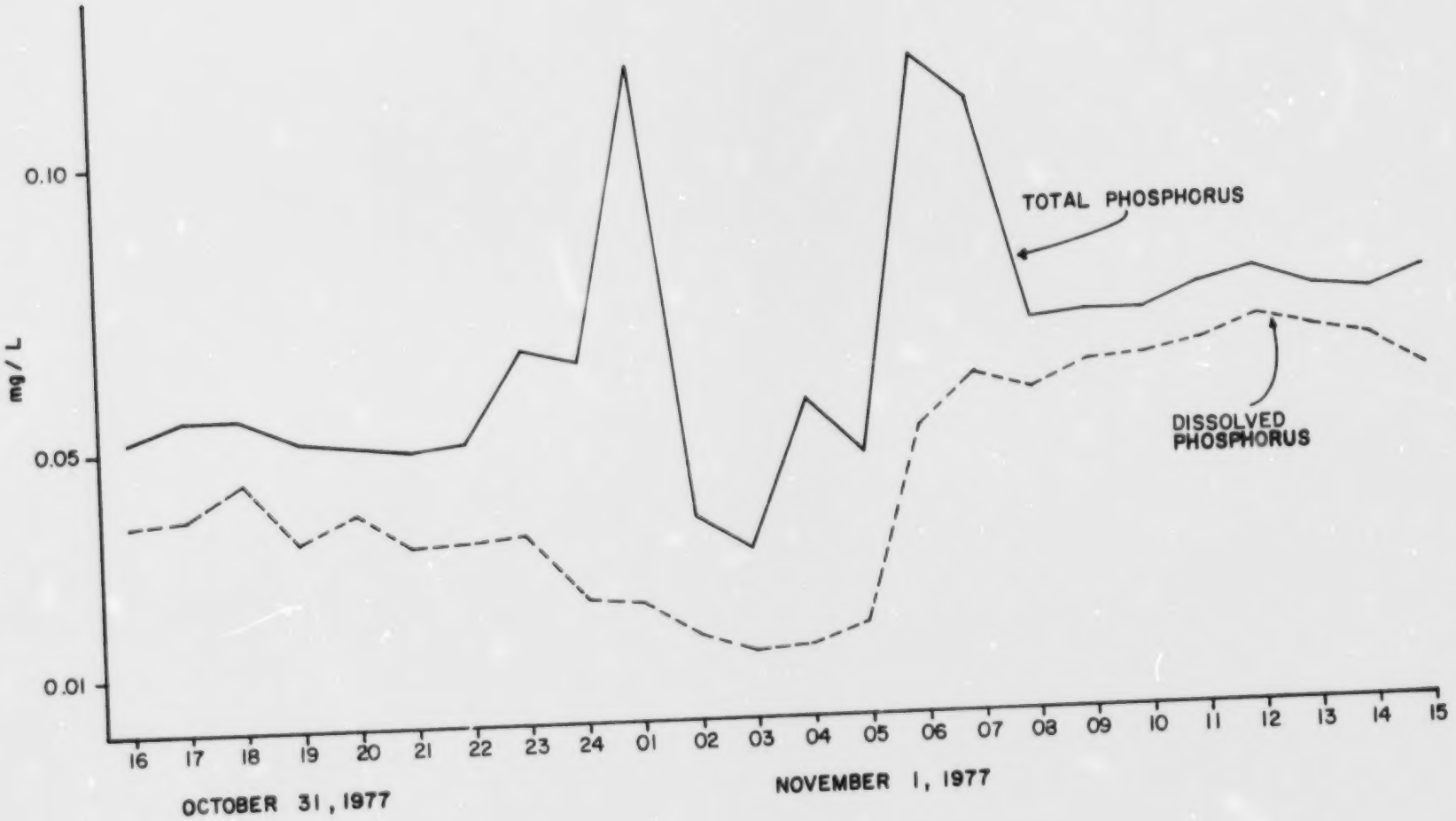


FIGURE 27
HOURLY VALUES OF PARTICULATE AND ORTHO-PHOSPHORUS
DURING OCT. 31 - NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

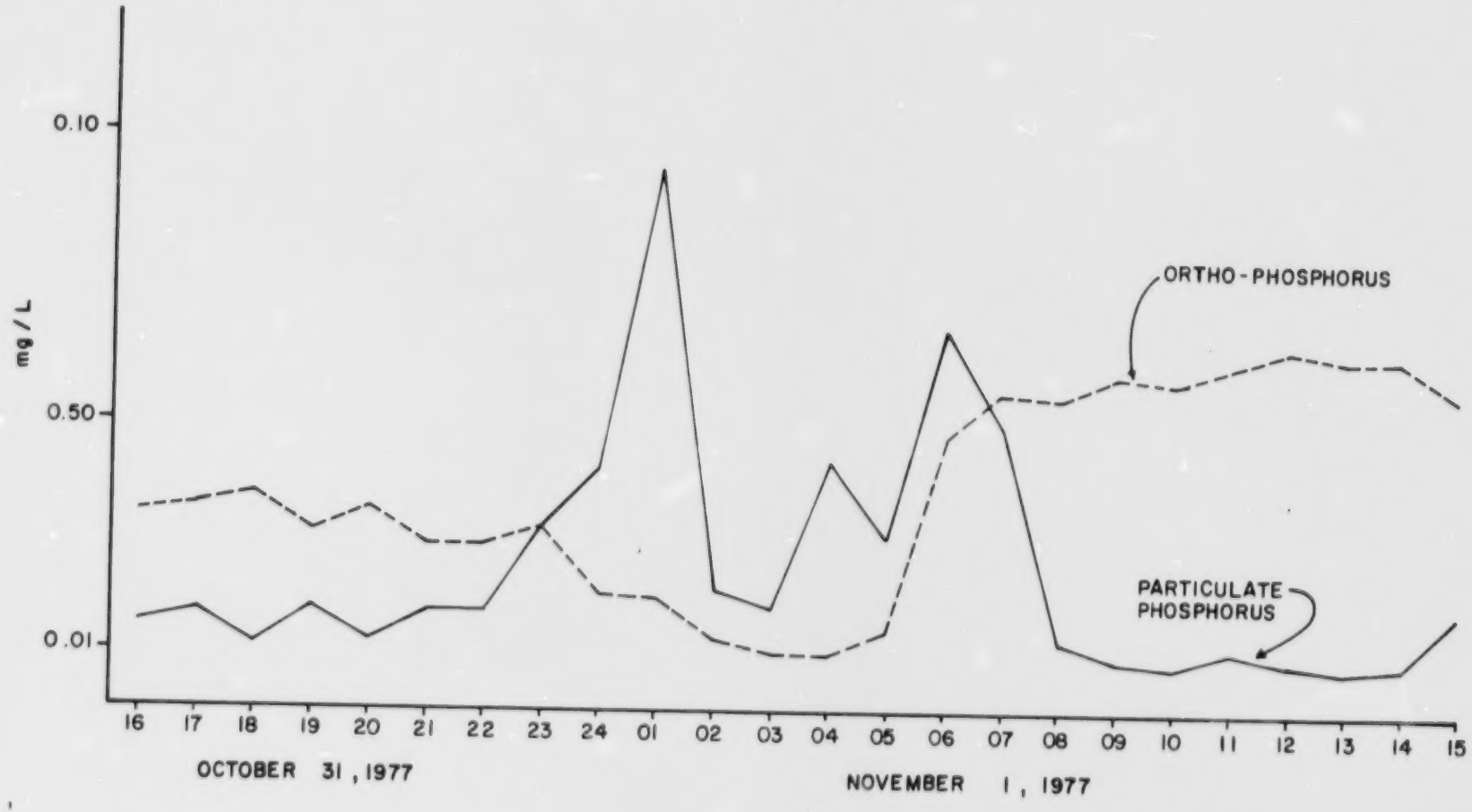


FIGURE 28

HOURLY VALUES OF REACTIVE SILICA, DISSOLVED CALCIUM AND DISSOLVED CHLORIDE DURING OCT. 31 - NOV. 1, 1977 SAMPLING TRIP AT SITE 0920298

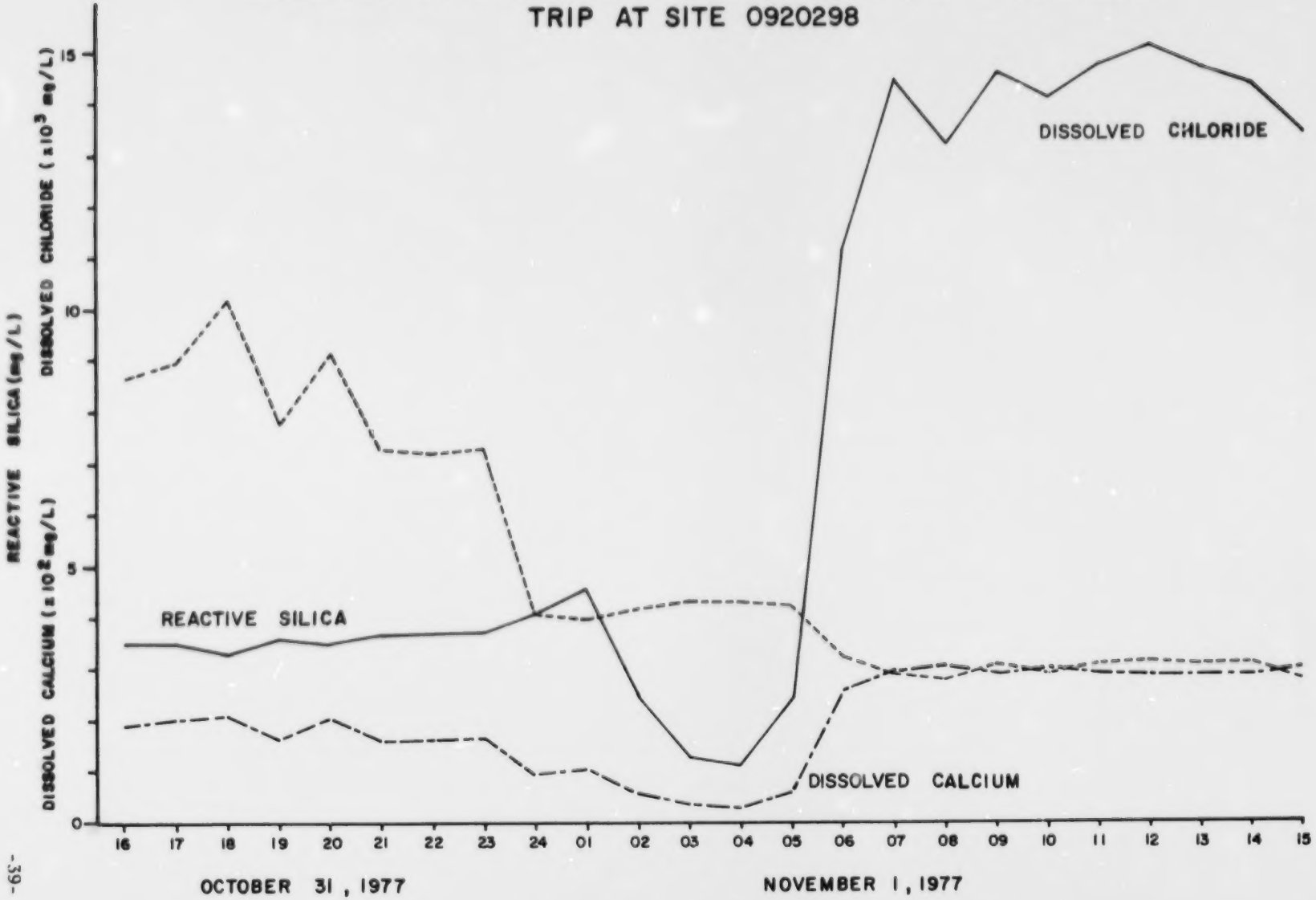


TABLE 1

SITE NUMBERS GROUPED BY GEOGRAPHICAL LOCATION

WITH THE NUMBER OF DEPTHS SAMPLED ON EACH TRIP

Reach Letter	Reach Name	Site No.	Number of Depths Sampled In			Reach Letter	Reach Name	Site No.	Number of Depths Sampled In		
			Apr.	Aug.	Oct.				Apr.	Aug.	Oct.
A	Canoe Pass	0900108	3	3	-	I	Woodward Landing Slough	0920436	5	5	-
(MC)		0920425	11	5	-	(SL)					
B	Cannery Channel	0301223	7	5	8	J	Deas Slough	0920278	6	4	6
		0301225	6	4	8			0920288	7	4	6
		0301227	8	5	8			0920413	6	4	7
(SC)		0900109	9	5	8			0920414	6	4	3
		0920261	6	4	5	(SL)		0920437	6	4	6
C	Main Arm: Opposite Steveston	0920254	9	5	-	K	Main Arm: Opposite Annacis Island	0301311	10	5	-
		0920256	8	6	-			0920236	7	6	-
(MC)		0920426	6	5	-			0920241	10	6	-
D	Ewen Slough	0920427	3	3	3			0920244	10	6	-
(SL)		0920428	2	3	4	(MC)		0920246	5	6	-
E	Ladner Slough and Side Channel	0920276	7	5	8	L	Annacis Channel	0301309	5	6	-
		0920368	5	4	6			0920438	4	5	-
		0920372	5	4	6	(SC)		0920439	5	5	-
(SL)		0920429	8	6	-	M	Tilbury Slough	0920440	1	-	-
F	Near Ladner Sewage Treatment Plant	0920430	2	2	-			0920441	1	-	-
		0920431	2	3	-			0920442	1	-	-
(SL)		0920432	2	3	-			0920492	-	-	3
						(SL)		0920493	-	-	2
G	Gilmour Slough	0920433	2	2	3	N	Behind Training Wall - New West.	0920443	8	4	-
		0920434	2	2	4	(SC)		0920444	4	5	-
(SL)		0920435	1	2	1						
H	Main Arm: Opposite Deas Tunnel	0920262	6	6	-	O	Outside Training Wall - New West.	0920247	4	5	-
		0920289	7	-	-			0920445	5	6	-
(MC)		0920291	8	6	-	(MC)		0920446	5	4	-

TABLE 1 (CONTINUED)

SITE NUMBERS GROUPED BY GEOGRAPHICAL LOCATION

WITH THE NUMBER OF DEPTHS SAMPLED ON EACH TRIP

Reach	Reach Name	Site No.	Number of Depths Sampled In			Reach	Reach Name	Site No.	Number of Depths Sampled In		
			Apr.	Aug.	Oct.				Apr.	Aug.	Oct.
P	North Arm:	0920286	8	5	-	V	Richmond Island	0920280	8	5	3
(MC)	Opposite Poplar Island	0920447	4	5	-	(SL)	Slough	0920458	6	-	4
Q	Slough Near Queensborough	0920448	3	3	-	W	Slough Downstream of Richmond Island	0920499	-	3	-
(SL)	Bridge					(SL)					
R	Slough Downstream	0920450	-	4	-	X	Middle Arm	0920454	7	5	-
	of Queensborough	0920451	3	4	-			0920455	5	-	-
(SL)	Bridge							0920456	7	5	-
								0920457	5	4	-
S	North Arm:	0920220	5	6	-	(MC)		0920494	-	4	-
	Queensborough	0920267	-	5	7						
	Reach and	0920449	7	5	-	Y	McDonald Slough	0920296	4	5	5
(MC)	Mitchell Island	0920452	4	5	7			0920460	6	6	8
								0920497	-	5	8
T	Channel Behind	0920266*	6	5	7	(SL)		0920498	-	5	6
	Mitchell Island	0920268	4	5	7						
		0920269	4	5	-	Z	North Arm Jetty	0920216	-	5	9
(SC)		0920453	5	5	7			0920297	-	-	7
								0920298	-	-	7
	North Arm:	0300002	6	6	8			0920459	7	5	8
(MC)	Oak St. Bridge							0920495	-	5	-
								0920496	-	5	-
								0920625	-	3	4
						Number of sites sampled			68	72	39

* As the depths were sampled twice, the average values were used.

MC - Main Channel Reach
SC - Side Channel Reach
SL - A Slough

TABLE 2

SUMMARY OF MEAN VALUES FOR TEMPERATURE IN
THE LOWER FRASER RIVER DURING THE 1978 SURVEY

	April (°C)	August (°C)	October (°C)
Main Channels	6.0	16.6	10.4
Side Channels	6.3	16.6	10.3
Sloughs	7.0	17.0	10.3
Overall Mean	6.3	16.7	10.3

TABLE 3

SUMMARY OF MEAN VALUES FOR OXYGEN CONCENTRATION AND PERCENT SATURATION IN THE LOWER FRASER RIVER DURING THE 1978 SURVEY

	April		August		October	
	Conc. (mg/L)	% Sat. (%)	Conc. (mg/L)	% Sat. (%)	Conc. (mg/L)	% Sat. (%)
Main Channels	12.8	104	9.4	97	10.3	94
Side Channels	12.1	100	9.1	94	10.0	91
Sloughs	11.3	95	8.6	89	9.9	89
Overall Mean	12.2	100	9.1	94	10.0	91

TABLE 4

DATA FROM SAMPLING DONE BY THE

WASTE MANAGEMENT BRANCH ON OCTOBER 25, 1978 IN THE MAIN ARM

	Site 0300001	Site 0300003	Average
pH	7.5	7.5	7.5
Conductivity (µS/cm)	1 900.0	150.0	1 025.0
Temperature (°C)	10.0	10.0	10.0
Dissolved Oxygen (mg/L)	10.5	10.6	10.55
% DO (%)	93.9%	94.0%	93.95

TABLE 5

SUMMARY OF MEAN VALUES FOR SPECIFIC CONDUCTIVITY
IN THE LOWER FRASER RIVER DURING THE 1978 SURVEY

	April (µS/cm)	August (µS/cm)	October (µS/cm)
Main Channels	3 330	1 370	6 920
Side Channels	7 120	1 740	7 420
Sloughs	3 800	1 550	3 180
Overall Mean	4 280	1 500	5 310

TABLE 6

SUMMARY OF MEAN VALUES FOR pH IN THE
LOWER FRASER RIVER DURING THE 1978 SURVEY

	April	August	October
Main Channels	7.5	7.4	7.2 (7.35)*
Side Channels	7.2 (7.45)*	7.4	7.4
Sloughs	7.3	7.2	7.3
Overall Mean	7.4	7.3	7.3

* See Section 2.2.5 for explanation of these numbers.

TABLE 7

RESULTS OF SAMPLING pH

IN REACHES N AND O ON APRIL 12, 1978

Location	Time	pH
Opposite jetty marker 1/4 of river width from south shore	1035 hrs	8.10 8.15 8.15
150 m upstream of jetty marker 1/4 of river width from south shore	1040 hrs	8.15 8.05 7.85
200 m downstream of Patullo Bridge 1/3 of river width from south shore	1045 hrs	7.86 7.80
Under Pattullo Bridge, midstream	1055 hrs	7.95 7.95 7.90

TABLE 8

SUMMARY OF MEAN VALUES FOR ORP*

IN THE LOWER FRASER RIVER DURING THE 1978 SURVEY

	April (mv)	August (mv)	October (mv)
Main Channels	547	NM	683
Side Channels	543	NM	604
Sloughs	527	NM	679**
Overall Mean	540	NM	661

NM = not measured

* Converted to hydrogen electrode standard

** McDonald Slough had unusually high values. The mean value without McDonald Slough is 536 with a standard deviation of 81.

TABLE 9

CRITERIA FOR OXYGEN LEVELS IN RECEIVING WATERS

(FROM DAVIS, 1975)

Class of Fish \ Level	A		B		C	
	DO (mg/L)	% DO at 10° C	DO (mg/L)	% DO at 10° C	DO (mg/L)	% DO at 10° C
Freshwater Salmonids	7.75	76	6.00	57	4.25	38
Salmonid Larvae and Mature Eggs	9.75	98	8.00	76	6.50	57
Anadromous Marine Fish Including Salmonids	9.00	100	6.50	79	4.00	57

TABLE 10

CORRELATIONS OF PARAMETERS WITH DEPTH

(DEGREES OF FREEDOM SHOWN IN BRACKETS)

	Temperature			Dissolved Oxygen			Percent Saturation		
	Apr.	Aug.	Oct.	Apr.	Aug.	Oct.	Apr.	Aug.	Oct.
Main Channels	0.005 (179)	-0.008 (158)	0.237 (62)	-0.192 (179)	-0.059 (157)	-0.516* (62)	-0.191 (179)	-0.056 (157)	-0.497* (62)
Side Channels	0.148 (82)	-0.370* (68)	0.281 (58)	-0.322* (82)	-0.223* (68)	-0.669* (58)	-0.313* (82)	-0.227 (68)	-0.658* (58)
Sloughs	-0.006 (114)	-0.165 (103)	0.442* (105)	-0.292* (114)	-0.322* (104)	-0.573* (105)	-0.214 (114)	-0.300* (103)	-0.530* (105)
All Data	0.005 (929)			-0.104* (929)			-0.115* (928)		

* Significant correlation at a (individual) probability level of 0.005.

TABLE 10 (CONTINUED)

CORRELATIONS OF PARAMETERS WITH DEPTH

(DEGREES OF FREEDOM SHOWN IN BRACKETS)

	Specific Conductance			pH			Oxidation Reduction Potential		
	Apr.	Aug.	Oct.	Apr.	Aug.	Oct.	Apr.	Aug.	Oct.
Main Channels	0.239 (179)	0.074 (158)	0.442* (62)	-0.052 (179)	-0.133 (158)	-0.528* (62)	0.379* (179)	-	0.721* (62)
Side Channels	0.339* (82)	0.303 (68)	0.589* (58)	0.030 (82)	-0.353* (68)	-0.644* (58)	-0.030 (82)	-	0.224 (58)
Sloughs	0.665* (114)	0.495* (104)	0.595* (105)	-0.388 (114)	-0.458* (104)	-0.675* (105)	0.288* (114)	-	0.247* (105)
All Data	0.274* (930)			-0.193* (930)			0.171* (600)		

* Significant correlation at a (individual) probability level of 0.005.

APPENDIX A

COMPREHENSIVE DATA SUMMARY FOR MONITORING CARRIED OUT IN APRIL, AUGUST AND OCTOBER, 1978

TABLE A-1

TEMPERATURE (^{o}C)

Temperature (^{o}C)		APRIL				AUGUST				OCTOBER			
MAIN CHANNELS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	A	14	6.5	6.5	0.00	8	17.0	17.0	0.00				
	C	23	6.1-8.4	6.7	0.72	16	17.0-17.5	17.1	0.22				
	H	21	5.5-7.75	6.05	0.60	12	16.0-17.0	16.9	0.29				
	K	42	5.2-5.4	5.3	0.07	29	16.5-17.0	16.6	0.16				
	O	14	5.2-5.6	5.3	0.15	15	16.5	16.5	0.00				
	A TO O	114	5.2-8.4	5.9	0.73	80	16.0-17.5	16.8	0.31				
North Arm	P	12	5.4-5.5	5.5	0.05	10	16.0-16.5	16.45	0.16				
	S	16	5.4-5.6	5.5	0.06	21	16.0-17.0	16.5	0.30	14	10.0-10.5	10.2	0.26
	U	6	5.8-5.9	5.8	0.04	6	16.5-17.0	16.9	0.20	8	10.5	10.5	0.00
	X	24	5.9-7.9	7.1	0.65	18	15.5-17.0	16.7	0.43				
	Z	7	6.0-7.0	6.3	0.36	23	13.5-17.0	16.0	0.92	40	10.0-10.55	10.5	0.15
	P TO Z	65	5.4-7.9	6.2	0.83	78	13.5-17.0	16.4	0.64	62	10.0-10.55	10.4	0.20
Main Channels	ALL	179	5.2-8.4	6.0	0.78	158	13.5-17.5	16.6	0.53	62	10.0-10.55	10.4	0.20
SIDE CHANNELS													
Main Arm	B	36	6.5-8.8	7.1	0.58	23	12.5-17.0	16.6	1.15				
	L	14	5.3-5.4	5.4	0.05	16	16.5-17.0	16.6	0.17	37	9.9-10.3	10.1	0.13
	N	12	5.3-5.6	5.6	0.09	9	16.5-17.0	16.9	0.17				
	B TO N	62	5.3-8.8	6.4	0.93	48	12.5-17.0	16.6	0.81	37	9.9-10.3	10.1	0.13
North Arm	T	24	5.7-5.9	5.8	0.06	20	16.5-17.0	16.6	0.20	21	10.5	10.5	0.00
Side Channels	ALL	86	5.3-8.8	6.2	0.85	68	12.5-17.0	16.6	0.69	58	9.9-10.5	10.3	0.20
SLOUGHS													
Main Arm	D	5	6.6-7.2	6.8	0.27	5	17.0-17.5	17.1	0.22	7	10.0-10.4	10.2	0.16
	E	25	6.3-8.2	6.9	0.55	19	17.0-17.5	17.2	0.25	20	10.0-11.0	10.3	0.22
	F	6	6.3-7.9	6.9	0.60	8	17.0-17.5	17.1	0.18				
	G	5	6.0-6.4	6.2	0.20	6	17.0	17.0	0.00	8	10.3-10.4	10.4	0.04
	I	5	6.3-6.5	6.4	0.08	5	17.0-17.5	17.4	0.22				

TABLE A-1 (CONTINUED)
TEMPERATURE (^{o}C)

Temperature (^{o}C)		APRIL				AUGUST				OCTOBER			
SLOUGHS (con'd)	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	J	31	6.4-10.2	7.5	1.00	20	17.5-18.0	17.6	0.22	28	10.2-10.6	10.3	0.10
	M	3	5.8- 9.2	6.9	1.96					8	7.5-10.2	9.5	1.08
	D TO M	80	5.8-10.2	7.1	0.87	63	17.0-18.0	17.3	0.32	71	7.5-11.0	10.2	0.46
North Arm	Q	3	5.7	5.7	0.00	3	16.0	16.0	0.00				
	R	3	5.8-6.5	6.1	0.22	8	16.0-16.5	16.4	0.23				
	V	14	6.0-8.2	6.7	0.74	5	16.5-17.0	16.9	0.22	7	10.0-10.5	10.3	0.27
	W					3	16.5-17.0	16.7	0.29				
	Y	10	6.6-8.5	7.4	0.72	21	15.0-17.0	16.5	0.70	27	9.5-11.5	10.6	0.56
	Q TO Y	34	5.7-8.5	6.7	0.82	40	15.0-17.0	16.5	0.56	34	9.5-11.5	10.6	0.53
Sloughs	ALL	114	5.7-10.2	6.9	0.87	103	15.0-18.0	17.0	0.58	105	7.5-11.5	10.3	0.51
Main Channels, Side Channels and Sloughs		370	5.2-10.2	6.3	0.93	329	12.5-18.0	16.7	0.54	225	7.5-11.5	10.3	0.33
Main Channels, Side Channels and Sloughs for all three sampling sites						923	5.2-18.0	11.0	4.59				

TABLE A-2

DISSOLVED OXYGEN (mg/L)

Dissolved Oxygen (mg/L)		APRIL				AUGUST				OCTOBER			
MAIN CHANNELS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	A	14	12.0 -12.8	12.3	0.20	8	9.4 - 9.6	9.5	0.05				
	C	23	9.25-12.8	11.6	0.90	16	9.3 - 9.8	9.6	0.14				
	H	21	10.2 -12.4	11.9	0.58	12	9.4 - 9.6	9.5	0.07				
	K	42	13.4 -13.8	13.6	0.11	28	9.2 -10.0	9.6	0.15				
	O	14	13.1 -14.1	13.6	0.29	15	8.7 - 9.8	9.4	0.27				
	A TO O	114	9.25-14.1	12.7	0.99	79	8.7 -10.0	9.5	0.17				
North Arm	P	12	13.2 -13.8	13.5	0.19	10	9.8 - 9.9	9.8	0.04				
	S	16	12.6 -13.9	13.3	0.32	21	9.2 - 9.8	9.5	0.14	14	10.4-11.2	10.7	0.20
	U	6	12.3 -13.3	12.6	0.37	6	8.6 - 9.1	8.9	0.23	8	10.4-12.0	10.8	0.51
	X	24	11.9 -13.1	12.5	0.29	18	8.6 - 9.4	9.0	0.17				
	Z	7	12.1 -13.3	12.5	0.38	23	6.4 - 9.6	8.9	0.58	40	7.4-12.0	10.0	1.07
	P TO Z	65	11.9 -13.9	12.9	0.53	78	6.4 - 9.9	9.2	0.47	62	7.4-12.0	10.3	0.94
Main Channels	ALL	179	9.25-14.1	12.8	0.86	157	6.4 -10.0	9.4	0.38	62	7.4-12.0	10.3	0.94
SIDE CHANNELS													
Main Arm	B	36	6.15-12.3	10.9	1.61	23	2.7 - 9.8	8.9	1.52				
	L	14	13.4 -13.8	13.5	0.12	16	9.3 -10.0	9.5	0.22	37	5.3-11.2	9.8	1.80
	N	12	12.9 -13.5	13.1	0.21	9	7.8 - 8.3	8.1	0.16				
	B TO N	62	6.15-13.8	11.9	1.73	48	2.7 -10.0	9.0	1.16	37	5.3-11.2	9.8	1.80
North Arm	T	24	12.0 -13.8	12.6	0.48	20	8.8 -10.6	9.4	0.48	21	9.8-11.4	10.3	0.33
Side Channels	ALL	86	6.15-13.8	12.1	1.51	68	2.7 -10.6	9.1	1.02	58	5.3-11.4	10.0	1.46

TABLE A-2 (CONTINUED)

DISSOLVED OXYGEN (mg/L)

Dissolved Oxygen (mg/L)		APRIL				AUGUST				OCTOBER			
SLOUGHS (con'd)	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	D	5	11.4 -12.0	11.8	0.25	6	7.8 - 9.4	8.7	0.72	7	9.5-11.4	10.8	0.73
	E	25	9.5 -12.2	11.4	0.69	19	7.35- 9.6	8.8	0.81	20	7.9-11.5	10.4	0.78
	F	6	11.3 -12.1	11.6	0.30	8	8.9 - 9.5	9.3	0.19				
	G	5	11.9 -12.4	12.1	0.19	6	9.0 - 9.2	9.1	0.08	8	10.6-11.6	11.3	0.38
	I	5	10.3 -12.2	11.7	0.78	5	9.0 - 9.4	9.2	0.14				
	J	31	0.65-12.0	10.1	2.27	20	4.6 - 9.0	7.8	0.95	28	7.8-11.4	9.7	1.25
	M	3	7.5 -13.1	11.2	3.20					8	7.0-11.2	10.0	1.77
	D TO M	80	0.65-13.1	11.0	1.72	64	4.6 - 9.6	8.6	0.91	71	7.0-11.6	10.2	1.20
North Arm	Q	3	12.2 -13.2	12.6	0.55	3	9.6	9.6	0.00				
	R	7	11.6 -12.6	12.2	0.36	8	8.5 - 9.6	9.1	0.34				
	V	14	11.0 -13.2	12.4	0.68	5	8.9 - 9.1	9.0	0.84	7	9.4-11.4	10.4	0.74
	W					3	9.0 - 9.1	9.0	0.06				
	Y	10	9.9 -12.8	11.9	0.87	21	1.5 - 9.0	8.0	2.01	27	5.0-11.2	8.8	1.72
	Q TO Y	34	9.9 -13.2	12.2	0.70	40	1.5 - 9.6	8.6	1.56	34	5.0-11.4	9.1	1.69
Sloughs	ALL	114	0.65-13.2	11.3	1.59	104	1.5 - 9.6	8.6	1.20	105	5.0-11.6	9.9	1.46
Main Channels, Side Channels and Sloughs		374	0.65-14.1	12.2	1.43	330	1.5 -10.6	9.1	0.93	225	5.0-12.0	10.0	1.34
Main Channels, Side Channels and Sloughs for all three sampling dates						923	0.65-14.1	10.6	1.87				

TABLE A-3

DISSOLVED OXYGEN, PERCENT SATURATION

% DO		APRIL				AUGUST				OCTOBER			
MAIN CHANNELS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	A	14	99.4-105.9	102.0	1.7	8	97.4- 99.5	98.4	0.6				
	C	23	93.9-104.8	99.3	2.4	16	96.4-102.6	99.6	1.8				
	H	21	89.0-101.7	97.4	2.4	12	96.4- 99.5	98.7	1.0				
	K	42	105.6-109.0	107.1	0.8	28	94.3-102.5	98.1	1.6				
	O	14	104.0-111.1	107.5	2.1	15	89.2-100.5	96.9	2.8				
	A TO O	114	89.0-111.1	103.2	4.5	79	89.2-102.6	98.3	1.9				
North Arm	P	12	104.8-109.6	107.2	1.4	10	99.4-101.5	100.6	0.6				
	S	16	100.1-110.1	105.5	2.5	21	94.3-100.5	97.6	1.4	14	92.2- 99.3	95.1	1.7
	U	6	98.4-106.7	101.0	3.0	6	89.1- 94.3	91.9	2.2	8	93.3-107.7	96.9	4.6
	X	24	100.2-107.8	104.7	1.8	18	90.6- 99.0	94.2	2.0				
	Z	7	99.9-107.0	102.9	2.5	23	63.6- 97.4	92.7	6.7	40	75.1-108.7	93.0	7.3
	P TO Z	65	98.4-110.1	104.8	2.7	78	63.6-101.5	95.3	4.8	62	75.1-108.7	94.0	6.3
Main Channels	ALL	179	89.0-111.1	103.8	4.0	157	63.6-102.6	96.8	3.9	62	75.1-108.7	94.0	6.3
SIDE CHANNELS													
Main Arm	B	36	58.3-102.9	95.4	10.1	23	28.6-102.5	93.3	15.7	37	55.6-100.5	90.1	12.9
	L	14	105.9-109.0	107.2	1.0	16	95.4-103.6	97.8	2.5				
	N	12	102.7-107.5	104.5	1.5	9	80.8- 86.0	83.5	1.5				
	B TO N	62	58.3-109.0	99.8	9.3	48	28.6-103.6	93.0	11.9	37	55.6-100.5	90.1	12.9
North Arm	T	20	96.0-110.1	100.9	3.9	20	90.2-108.7	96.4	4.8	21	87.9-102.3	92.3	2.9
Side Channels	ALL	82	58.3-110.1	100.1	8.3	68	28.6-108.7	94.0	10.4	58	55.6-102.3	90.9	10.5

TABLE A-3 (CONTINUED)

DISSOLVED OXYGEN, PERCENT SATURATION

% DO		APRIL				AUGUST				OCTOBER			
SLOUGHS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	D	5	95.4- 99.3	97.8	1.6	5	80.8- 97.4	89.7	8.1	7	86.5-102.2	97.0	5.9
	E	25	80.0-100.3	95.2	5.1	19	77.0- 99.5	91.2	8.2	20	73.0-103.3	93.6	6.6
	F	6	94.3- 99.2	96.6	1.9	8	93.2- 98.4	96.2	1.7				
	G	5	95.9-100.0	97.9	1.9	6	93.3- 95.3	94.1	0.8	8	95.4-104.8	101.1	3.3
	I	5	86.5- 99.3	95.6	5.2	5	94.2- 97.4	96.1	1.2				
	J	31	5.5- 98.7	84.5	18.8	20	48.2- 94.2	81.7	9.9	28	70.0-102.1	86.5	11.0
	M	3	65.3-104.8	91.4	22.6					8	58.9- 99.8	88.6	17.1
	D TO M	80	5.5-104.8	91.4	13.7	63	48.2- 99.5	89.4	9.3	71	58.9-104.8	91.4	10.8
North Arm	Q	3	97.4-105.6	100.3	4.4	3	97.4- 97.4	97.4	0				
	R	7	93.3-102.6	97.8	3.3	8	87.2- 98.4	92.8	3.5				
	V	14	96.7-106.5	103.3	2.5	5	92.4- 94.8	93.7	1.0	7	85.8-101.7	93.5	6.1
	W					3	92.3- 93.5	93.0	0.6				
	Y	10	93.4-106.9	103.2	3.7	21	16.2- 96.8	84.1	20.8	27	49.3- 98.6	81.1	13.2
	Q TO Y	34	93.3-106.9	101.9	3.8	40	16.2- 98.4	88.7	15.8	34	19.3-101.7	83.7	13.0
Sloughs	ALL	114	5.5-106.9	94.5	12.6	103	16.2- 99.5	89.1	12.2	105	49.3-104.8	88.9	12.1
Main Channels, Side Channels and Sloughs		375	5.5-111.1	100.2	9.3	328	16.2-108.7	93.8	9.3	225	49.3-108.7	90.8	10.5

TABLE A-4

CONDUCTIVITY (µS/cm)

Conductivity (µS/cm)		APRIL				AUGUST				OCTOBER			
MAIN CHANNELS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	A	14	2400- 5580	4890	796	8	70- 80	78	3.7				
	C	23	1780-42000	11800	13400	16	70- 100	88	10				
	H	21	130-28200	4500	8340	12	85- 90	89	1.9				
	K	42	119- 148	139	6.7	29	10- 110	91	28				
	O	14	10- 119	90	30	15	45- 110	88	22				
	A TO O	114	10-42000	3880	8220	80	10- 110	88	20				
North Arm	P	12	70- 100	96	8.3	10	45- 75	65.5	8.3				
	S	16	10- 99	68	31	21	45- 100	80	18	14	110	110	0
	U	6	120- 192	151	30	6	190- 240	213	23	8	130- 460	189	112
	X	24	1- 9180	4940	3470	18	210-15000	3320	5000				
	Z	7	2-10000	3770	3950	23	10-22000	6320	7450	40	580-31000	10600	8780
	P TO Z	65	1-10000	2280	3350	78	10-22000	2680	5350	62	110-31000	6920	8660
Main Channels	ALL	179	1-42000	3300	6890	158	10-22000	1370	3960	62	110-31000	6920	8660
SIDE CHANNELS													
Main Arm	B	36	6300-41800	15900	12600	23	130-31000	4950	8020				
	L	14	131- 138	134	2.7	16	10- 100	88	21	37	2450-42000	11600	13400
	N	12	104- 114	111	4.0	9	20- 120	103	32				
	B TO N	62	104-41800	9290	12400	48	10-31000	2420	6010	37	2450-42000	11600	13400
North Arm	T	24	9- 83	53	23	20	90- 100	92	4.1	21	110- 140	120	9.2
Side Channels	ALL	86	9-41800	6710	11300	68	10-31000	1740	5150	58	110-42000	7420	12000

TABLE A-4 (CONTINUED)

CONDUCTIVITY (µS/cm)

Conductivity (µS/cm)		APRIL				AUGUST				OCTOBER			
MAIN CHANNELS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	D	5	3000- 3900	3700	391	6	50- 85	72.5	13	7	1900- 5100	2970	1480
	E	25	2690- 7610	4690	1300	19	10- 110	75	32	20	1100- 5100	1935	1100
	F	6	1900- 4700	3670	979	8	55- 100	76	14				
	G	5	650- 1180	818	214	6	50- 90	70	17	8	360- 2900	1040	887
	I	5	650- 8650	2840	3410	5	60- 90	77	12				
	J	31	730-11900	2000	2330	20	10- 130	67	47	28	320- 1400	630	270
	M	3	107- 265	170	84					8	230- 2500	822	1020
	D TO M	80	107-11900	2980	2280	64	10- 130	72	32	71	230- 5100	1300	1160
North Arm	Q	3	8- 10	8.7	1.2	3	85- 90	87	2.9				
	R	7	12- 52	28	20	8	60- 100	83	19				
	V	14	201-19300	5060	6980	5	700- 2800	1540	862	7	1200- 5000	2230	1310
	W					3	200- 800	400	346				
	Y	10	1800-25100	10900	9080	21	1100-20000	7000	7150	27	120-22500	8390	8220
	Q TO Y	34	8-25100	5290	7720	40	60-20000	3920	6110	34	120-22500	7120	7740
Main Channels	ALL	114	8-25100	3670	4710	104	10-20000	1550	4200	105	120-22500	3180	5240
Main Channels, Side Channels and Sloughs		370	1-42000	4280	7780	330	10-31000	1500	4290	225	110-42000	5310	8590
Main Channels, Side Channels and Sloughs for all three sampling dates						934	1-42000	3510	7120				

TABLE A-5

pH

pH		APRIL				AUGUST				OCTOBER			
MAIN CHANNELS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	A	14	6.99-7.72	7.23	0.16	8	7.4-7.8	7.68	0.15				
	C	23	7.5 -7.61	7.55	0.04	16	7.1-8.1	7.78	0.29				
	H	21	7.6 -7.9	7.74	0.11	12	7.5-7.9	7.64	0.10				
	K	42	7.45-7.88	7.71	0.10	29	7.0-7.9	7.63	0.20				
	O	14	6.64-7.54	7.14	0.35	15	7.5-7.8	7.64	0.09				
	A TO O	114	6.64-7.90	7.56	0.27	80	7.0-8.1	7.67	0.20				
North Arm	P	12	7.20-7.32	7.28	0.04	10	7.5-7.7	7.59	0.09				
	S	16	7.23-7.5	7.45	0.07	21	7.3-7.6	7.48	0.09	14	7.2-7.7	7.42	0.15
	U	6	7.18-7.52	7.39	0.15	6	7.2-7.5	7.30	0.13	8	7.0-7.7	7.44	0.23
	X	24	6.85-7.61	7.48	0.16	18	6.1-7.6	7.07	0.45				
	Z	7	6.39-7.76	7.19	0.63	23	4.7-7.5	6.52	0.90	40	6.2-7.6	7.04	0.44
	P TO Z	65	6.39-7.76	7.39	0.25	78	4.7-7.7	7.11	0.67	62	6.2-7.7	7.18	0.41
Main Channels	ALL	179	6.39-7.9	7.50	0.27	158	4.7-8.1	7.39	0.56	62	6.2-7.7	7.18	0.41
SIDE CHANNELS													
Main Arm	B	36	7.0 -7.9	7.41	0.14	23	6.0-7.9	7.37	0.58	37	6.9-7.8	7.46	0.27
	L	14	7.64-7.7	7.68	0.02	16	7.0-7.7	7.49	0.21				
	N	12	5.8 -6.44	6.06	0.20	9	7.0-7.7	7.32	0.21				
	B TO N	62	5.8 -7.9	7.21	0.60	48	6.0-7.9	7.40	0.43	37	6.9-7.8	7.46	0.27
North Arm	T	24	7.19-7.4	7.35	0.06	20	7.2-7.5	7.32	0.09	21	7.0-7.6	7.31	0.19
Side Channels	ALL	86	5.8 -7.9	7.25	0.51	68	6.0-7.9	7.38	0.36	58	6.9-7.8	7.40	0.25

TABLE A-5 (CONTINUED)

pH

pH		APRIL				AUGUST				OCTOBER			
SLOUGHS (con'd)	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	D	5	7.49-7.51	7.50	0.01	6	7.6-8.0	7.80	0.14	7	7.5 -7.7	7.63	0.10
	E	25	7.0 -7.6	7.34	0.21	19	6.7-7.9	7.48	0.36	20	6.7 -7.7	7.28	0.23
	F	6	7.40-7.66	7.52	0.10	8	7.2-7.8	7.57	0.25				
	G	5	7.68-7.7	7.69	0.01	6	7.5-7.8	7.65	0.10	8	7.4 -7.7	7.60	0.11
	I	5	7.22-7.78	7.59	0.23	5	7.5-7.8	7.70	0.12				
	J	31	6.5 -7.88	7.24	0.28	20	5.9-7.5	7.02	0.40	28	6.9 -7.7	7.31	0.21
	M	3	6.7 -7.4	7.00	0.36					8	6.85-	7.42	0.36
	D TO M	80	6.5 -7.88	7.35	0.27	64	5.9-8.0	7.41	0.42	71	6.7 -7.7	7.38	0.25
North Arm	Q	3	7.13-7.16	7.14	0.02	3	7.5	7.50	0.00				
	R	7	7.00-7.15	7.07	0.05	8	7.3-7.6	7.45	0.12				
	V	14	6.42-7.82	7.37	0.41	5	6.1-7.2	6.68	0.54	7	6.6 -7.6	7.31	0.35
	W					3	7.2-7.4	7.27	0.12				
	Y	10	5.6 -7.8	7.16	0.84	21	4.8-7.5	6.53	0.74	27	6.0 -7.6	7.02	0.42
	Q TO Y	34	5.6 -7.82	7.23	0.52	40	4.8-7.6	6.86	0.70	34	6.0 -7.6	7.08	0.42
Sloughs	ALL	114	5.6 -7.88	7.31	0.37	104	4.8-8.0	7.20	0.60	105	6.0 -7.7	7.28	0.34
Main Channels, Side Channels and Sloughs		374	5.6 -7.9	7.39	0.39	330	4.7-8.1	7.33	0.55	225	6.0 -7.7	7.28	0.35
Main Channels, Side Channels and Sloughs for all three sampling sites						934	4.7-8.1	7.34	0.44				

TABLE A-6

OXIDATION REDUCTION POTENTIAL (mv)

ORP		APRIL				AUGUST				OCTOBER			
MAIN CHANNELS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	A	14	380-400	383	5.0								
	C	23	335-362	353	7.5								
	H	21	332-375	356	14.3								
	K	42	340-375	360	9.2								
	O	14	270-400	356	45.7								
	A TO O	114	270-400	360	20.1								
North Arm	P	12	338-367	358	8.9								
	S	16	272-371	328	24.7					14	300-550	483	63.1
	U	6	255-331	302	28.7					8	350-500	429	55.1
	X	24	269-362	302	17.6								
	Z	7	295-402	347	48.4					40	280-700	494	122.5
	P TO Z	65	255-402	324	32.4					62	280-700	483	106
Main Channels	ALL	179	255-402	347	30.7					62	280-700	483	106
SIDE CHANNELS													
Main Arm	B	36	212-354	325	31.3					37	220-480	360	62.5
	L	9	326-384	358	14.6								
	N	12	390-434	420	13.6								
	B TO N	62	212-434	351	44.5					37	220-480	360	62
North Arm	T	24	281-349	328	15.9					21	150-600	492	91.8
Side Channels	ALL	86	212-434	345	40.0					58	150-600	408	97.7

Note: Add 200 millivolts to the above Hydrolab ORP measurements to convert to standard hydrogen electrode.

TABLE A-6 (CONTINUED)

OXIDATION REDUCTION POTENTIAL (mv)

ORP		APRIL				AUGUST				OCTOBER			
SLOUGHS	AREA	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.	n	MIN-MAX	MEAN	S.D.
Main Arm	D	5	340-358	350	6.5								
	E	25	318-360	346	12.1					7	260-280	271	6.9
	F	6	300-339	321	12.6					20	330-500	424.5	41.1
	G	5	318-350	336	13.6								
	I	5	320-362	339	15.8					8	290-420	349	48.5
	J	31	210-340	304	29.2								
	M	3	188-360	283	87.5					28	240-390	308	28.8
	D TO M	80	188-362	324	32.3					8	160-210	192.5	22.5
										71	160-500	329	79.7
North Arm	Q	3	342-353	348	5.7								
	R	7	339-358	352	6.6								
	V	14	259-390	319.5	35.0								
	W									7	340-550	407	66.5
	Y	10	279-412	344	54.2								
	Q TO Y	34	259-412	336	38.7					27	240-1500	891	364
										34	240-1500	791	380
Sloughs	ALL	114	188-412	328	34.5					105	160-1500	479	312
Main Channels, Side Channels and Sloughs		383	188-434	340	34.9					225	150-1500	461	227
Main Channels, Side Channels and Sloughs for all three sampling dates						604	150-1500	386	153				

APPENDIX B

DATA FROM EACH REACH FOR MONITORING
CARRIED OUT IN APRIL, AUGUST AND OCTOBER, 1978

TABLE B-1

RAW DATA FOR REACH A

TEST RESULTS FOR SITE 0930108 FRASER R. CANOE PASS

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 0830	0	09 01	6.99	2400.	6.5	12.2	400.
780403 0830	1	09 01	7.12	4500.	6.5	12.4	385.
780403 0830	1.5	09 01	7.18	4800.	6.5	12.	383.
780823 1025	0	11 01	7.7	70.	17.	9.4	
780823 1025	1	11 01	7.8	75.	17.	9.5	
780823 1025	3	11 01	7.7	80.	17.	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920425 FRASER R. CANOE PASS

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 0840	0	09 01	7.18	4550.	6.5	12.8	382.
780403 0840	1	09 01	7.19	4650.	6.5	12.3	383.
780403 0840	1.5	09 01	7.2	4950.	6.5	12.3	382.
780403 0840	2.5	09 01	7.21	5100.	6.5	12.2	380.
780403 0840	3.5	09 01	7.22	5320.	6.5	12.1	382.
780403 0840	4.5	09 01	7.72	5130.	6.5	12.4	382.
780403 0840	5	09 01	7.22	5280.	6.5	12.1	383.
780403 0840	6	09 01	7.22	5200.	6.5	12.5	381.
780403 0840	7	09 01	7.24	5420.	6.5	12.3	380.
780403 0840	7.5	09 01	7.25	5580.	6.5	12.5	380.
780403 0840	8	09 01	7.28	5530.	6.5	12.3	382.
780823 1030	0	11 01	7.6	80.	17.	9.6	
780823 1030	1	11 01	7.6	80.	17.	9.5	
780823 1030	3	11 01	7.7	80.	17.	9.5	
780823 1030	5	11 01	7.5	80.	17.	9.5	
780823 1030	10	11 01	7.4	80.	17.	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

The units for specific conductivity in all Tables of Appendix B are equivalent to μS/cm.

TABLE B-2

RAW DATA FOR REACH B

TEST RESULTS FOR SITE 0301223 CANNERY CHAN #5 PE 1830

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 0910	0	09 01	7.37	6660.	6.8	12.2	330.
780403 0910	1	09 01	7.37	6920.	6.7	12.1	339.
780403 0910	2	09 01	7.36	7900.	6.7	12.	347.
780403 0910	3	09 01	7.32	8990.	6.7	11.7	349.
780403 0910	4	09 01	7.15	16000.	7.	9.9	320.
780403 0910	5	09 01	7.9	31000.	7.6	0.15	243.
780403 0910	6	09 01	7.	32000.	7.8	0.0	212.
780823 0840	0	11 01	7.7	1700.	17.	9.4	
780823 0840	1	11 01	7.6	1600.	17.	9.	
780823 0840	3	11 01	7.6	1700.	17.	9.	
780823 0840	5	11 01	7.1	3300.	16.5	9.4	
780823 0840	5.7	11 01	6.4	5500.	16.5	8.9	
781025 0945	0	11 01	7.7	3600.	10.	11.2	390.
781025 0945	1	11 01	7.65	3700.	10.	11.	390.
781025 0945	2	11 01	7.65	4100.	10.1	11.	400.
781025 0945	3	11 01	7.3	5150.	10.2	10.8	450.
781025 0945	4	11 01	7.3	7100.	10.2	10.4	460.
781025 0945	5	11 01	7.1	16500.	10.3	9.5	480.
781025 0945	6	11 01	7.2	37000.	10.3	7.2	450.
781025 0945	7	11 01	7.	39500.	10.3	6.2	400.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0301223 CANNERY CHAN #7 PE 1830

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 0930	0	09 01	7.4	6300.	7.	12.1	338.
780403 0930	1	09 01	7.4	7400.	7.	11.9	340.
780403 0930	2	09 01	7.43	7930.	6.8	11.9	347.
780403 0930	3	09 01	7.42	8920.	6.7	11.8	347.
780403 0930	4	09 01	7.39	10900.	6.7	11.5	350.
780403 0930	5	09 01	7.25	26000.	7.5	8.4	344.
780823 0850	0	11 01	7.7	500.	17.	9.	
780823 0850	1	11 01	7.8	700.	17.	9.8	
780823 0850	3	11 01	7.7	1300.	17.	9.4	
780823 0850	5	11 01	6.9	2800.	17.	9.4	
781025 1000	0	11 01	7.7	4100.	9.9	11.	420.
781025 1000	1	11 01	7.7	4100.	9.9	11.	420.
781025 1000	2	11 01	7.65	4300.	10.	10.9	330.
781025 1000	3	11 01	7.5	5700.	10.1	10.7	380.
781025 1000	4	11 01	7.4	6100.	10.2	10.6	400.
781025 1000	5	11 01	7.4	7100.	10.2	10.5	400.
781025 1000	6	11 01	7.05	37000.	10.3	6.	350.
781025 1000	6.5	11 01	7.	40000.	10.2	5.3	280.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-2 (CONTINUED)

RAW DATA FOR REACH B

TEST RESULTS FOR SITE 0301227 CANNERY CHAN #9 PT 1614

** START ** Y M D H M	DEPTH METRES	SM SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0340060 ORP
780403 0940	0	09 01	7.39	7500.	7.1	11.6	318.
780403 0940	1	09 01	7.4	7780.	7.1	11.8	330.
780403 0940	2	09 01	7.43	8880.	7.	11.8	335.
780403 0940	3	09 01	7.43	11000.	6.9	11.5	340.
780403 0940	4	09 01	7.45	12000.	7.	11.5	340.
780403 0940	5	09 01	7.38	32300.	7.5	9.45	340.
780403 0940	6	09 01	7.4	38700.	8.	8.9	337.
780403 0940	6.9	09 01	7.4	40400.	8.8	8.6	302.
780823 0900	0	11 01	7.7	2500.	17.	9.8	
780823 0900	1	11 01	7.7	3000.	17.	9.8	
780823 0900	3	11 01	7.75	10000.	17.	9.4	
780823 0900	5	11 01	7.4	12000.	17.	9.	
780823 0900	7.4	11 01	8.	26000.	15.5	2.7	
781025 1010	0	11 01	7.7	4100.	10.	10.8	260.
781025 1010	1	11 01	7.7	4200.	10.	10.5	280.
781025 1010	2	11 01	7.5	4300.	10.	10.4	320.
781025 1010	3	11 01	7.5	4400.	10.1	10.2	300.
781025 1010	4	11 01	7.6	4900.	10.1	10.4	300.
781025 1010	5	11 01	7.3	6300.	10.2	10.1	350.
781025 1010	6	11 01	6.9	35000.	10.3	6.4	350.
781025 1010	7	11 01	6.9	34000.	10.3	5.8	260.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0400104 MCK LULU #9 CANNERY CH EX

** START ** Y M D H M	DEPTH METRES	SM SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0340060 ORP
780403 0955	0	09 01	7.5	8010.	6.9	11.7	290.
780403 0955	1	09 01	7.51	8090.	6.9	11.5	318.
780403 0955	2	09 01	7.51	8280.	6.8	11.6	322.
780403 0955	3	09 01	7.51	8650.	6.7	11.7	328.
780403 0955	4	09 01	7.5	10600.	6.6	11.2	330.
780403 0955	5	09 01	7.45	26000.	7.4	10.1	290.
780403 0955	6	09 01	7.52	39100.	8.	9.6	297.
780403 0955	7	09 01	7.52	40900.	8.2	9.65	290.
780403 0955	8	09 01	7.53	41800.	8.3	9.45	291.
780823 0915	0	11 01	7.8	140.	17.	9.6	
780823 0915	1	11 01	7.9	130.	17.	9.55	
780823 0915	3	11 01	7.9	135.	17.	9.55	
780823 0915	5	11 01	7.1	1700.	17.	9.3	
780823 0915	7.4	11 01	8.	31000.	12.5	6.4	
781025 1055	0	11 01	7.6	2530.	10.2	11.	300.
781025 1055	1	11 01	7.75	2550.	10.2	10.7	300.
781025 1055	2	11 01	7.8	2600.	10.2	10.7	300.
781025 1055	3	11 01	7.7	2650.	10.1	10.8	320.
781025 1055	4	11 01	7.55	2850.	10.1	10.5	300.
781025 1055	5	11 01	7.3	7500.	10.2	10.4	400.
781025 1055	6	11 01	7.25	33000.	10.3	8.5	420.
781025 1055	7	11 01	7.2	42000.	10.1	7.05	420.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-2 (CONTINUED)

RAW DATA FOR REACH B

TEST RESULTS FOR SITE 0920261 FRASER R. STEVESTON IS.

** START ** Y M D H M	DEPTH METRES	SH SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130056 T SAMPLE	0140060 OXY DISS	0390060 ORP
780403 0855	0	09 01	7.33	6920.	6.6	12.3	353.
780403 0855	1	09 01	7.32	6820.	6.6	12.2	343.
780403 0855	2	09 01	7.32	6780.	6.6	12.2	349.
780403 0855	3	09 01	7.32	6820.	6.6	12.1	350.
780403 0855	4	09 01	7.33	6820.	6.6	12.2	352.
780403 0855	5	09 01	7.33	7160.	6.6	12.1	354.
780823 0830	0	11 01	7.6	1500.	16.5	9.2	
780823 0830	1	11 01	7.6	1500.	16.5	9.2	
780823 0830	3	11 01	7.7	2800.	17.	9.4	
780823 0830	5	11 01	8.8	3100.	17.	9.4	
781025 0925	0	11 01	7.65	3700.	9.9	10.5	360.
781025 0925	1	11 01	7.65	3300.	10.	11.	400.
781025 0925	2	11 01	7.6	4200.	10.	10.9	400.
781025 0925	3	11 01	7.6	5000.	10.2	10.8	400.
781025 0925	3.5	11 01	7.6	5000.	10.2	10.7	390.
UNITS			RFL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-3

RAW DATA FOR REACH C

TEST RESULTS FOR SITE 0920234 FRASER R. STEVESTON IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1015	0	09 01	7.51	3000.	6.3	12.8	335.
780403 1015	0.5	09 01	7.52	2920.	6.1	12.3	340.
780403 1015	1	09 01	7.53	2870.	6.2	12.3	349.
780403 1015	1.5	09 01	7.52	3500.	6.2	12.25	349.
780403 1015	2	09 01	7.52	4150.	6.2	12.3	352.
780403 1015	3	09 01	7.51	6120.	6.2	12.1	358.
780403 1015	4	09 01	7.51	8420.	6.3	11.5	358.
780403 1015	5	09 01	7.6	30000.	7.4	10.7	354.
780403 1015	6	09 01	7.6	33700.	8.	10.4	352.
780823 0935	0	11 01	8.1	95.	17.	9.5	
780823 0935	1	11 01	8.	95.	17.	9.4	
780823 0935	3	11 01	7.1	100.	17.	9.4	
780823 0935	5	11 01	7.5	150.	17.5	9.8	
780823 0935	10	11 01	7.7	100.	17.5	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920250 FRASER R. STEVESTON IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1027	0	09 01	7.6	1780.	6.2	12.3	342.
780403 1027	1	09 01	7.59	2200.	6.1	12.2	352.
780403 1027	2	09 01	7.58	2850.	6.2	12.2	356.
780403 1027	3	09 01	7.58	6500.	6.2	11.9	362.
780403 1027	4	09 01	7.59	9550.	6.3	11.8	352.
780403 1027	5	09 01	7.61	33500.	7.8	10.7	362.
780403 1027	6	09 01	7.6	38600.	8.2	9.62	359.
780403 1027	7	09 01	7.61	42300.	8.4	9.25	353.
780823 0940	0	11 01	8.	70.	17.	9.6	
780823 0940	1	11 01	7.3	75.	17.	9.6	
780823 0940	3	11 01	8.1	80.	17.5	9.8	
780823 0940	5	11 01	7.8	80.	17.5	9.7	
780823 0940	10	11 01	7.7	90.	17.	9.5	
780823 0940	15	11 01	7.9	90.	17.	9.3	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-3 (CONTINUED)

RAW DATA FOR REACH C

TEST RESULTS FOR SITE 0920426 FRASER R. REIFEL IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE TYPE AG TP LOC T	0040060 PH	0110060 SPF COND	0130060 T SAMPLG	0140060 OXY DISS	0340060 ORP
780403 1040	0	09 01	7.5	4050.	6.6	12.1	342.
780403 1040	1	09 01	7.51	4060.	6.6	11.8	348.
780403 1040	2	09 01	7.51	4420.	6.5	11.7	350.
780403 1040	3	09 01	7.51	5120.	6.5	11.7	353.
780403 1040	4	09 01	7.51	6910.	6.5	11.8	359.
780403 1040	5	09 01	7.56	13800.	6.8	11.6	361.
780823 0950	0	11 01	7.9	80.	17.	9.7	
780823 0950	1	11 01	7.8	90.	17.	9.7	
780823 0950	3	11 01	8.	100.	17.	9.6	
780823 0950	5	11 01	8.	90.	17.	9.6	
780823 0950	6.4	11 01	7.5	90.	17.	9.6	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-4

RAW DATA FOR REACH D

TEST RESULTS FOR SITE 0920427 FRASER R. EWEN SLOUGH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1050	0	09 01	7.5	3900.	6.6	12.	340.
780403 1050	1	09 01	7.51	3890.	6.6	11.9	349.
780403 1050	1.5	09 01	7.51	3880.	6.7	11.9	351.
780823 1000	0	11 01	7.6	75.	17.	9.4	
780823 1000	1	11 01	7.7	85.	17.5	9.3	
780823 1000	1.7	11 01	8.	85.		9.2	
781025 0905	0	11 01	7.7	2000.	10.2	11.4	270.
781025 0905	1	11 01	7.7	2000.	10.2	11.2	270.
781025 0905	1.5	11 01	7.7	1900.	10.2	11.2	270.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920428 FRASER R. EWEN SLOUGH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1055	0	09 01	7.49	3000.	7.2	11.4	351.
780403 1055	1.1	09 01	7.49	2820.	7.	11.6	358.
780823 1005	0	11 01	7.8	50.	17.	7.9	
780823 1005	1	11 01	7.9	70.	17.	7.8	
780823 1005	2	11 01	7.8	70.	17.	8.8	
781025 0850	0	11 01	7.7	2000.	10.	11.2	260.
781025 0850	1	11 01	7.6	2700.	10.	11.	270.
781025 0850	2	11 01	7.5	3100.	10.4	9.5	280.
781025 0850	3	11 01	7.5	3100.	10.4	10.	280.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-3

RAW DATA FOR REACH 1

TEST RESULTS FOR SITE JN20276 FRASER R. LAUNCH REACH

** START ** Y M D H M	DEPTH METRES	SH SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130060 T SAMPLE	0140060 DXY DISS	0390060 ORP
780403 1135	0	09 01	7.43	3410.	7.6	11.7	340.
780403 1135	1	09 01	7.4	4000.	7.5	11.4	330.
780403 1135	2	09 01	7.4	4520.	6.8	11.8	350.
780403 1135	3	09 01	7.4	5020.	6.8	11.8	355.
780403 1135	4	09 01	7.4	5610.	6.7	11.7	359.
780403 1135	5	09 01	7.45	6300.	6.5	11.7	360.
780403 1135	7	09 01	7.48	7610.	6.5	11.5	360.
780823 1050	0	11 01	7.7	10.	17.	9.1	
780823 1050	1	11 01	7.7	10.	17.5	9.1	
780823 1050	3	11 01	7.9	10.	17.	9.3	
780823 1050	5	11 01	7.7	70.	17.	9.3	
780823 1056	7	11 01	7.6	70.	17.	9.3	
781025 1500	0	11 01	7.5	1150.	10.3	11.4	400.
781025 1500	1	11 01	7.35	1230.	10.3	11.	420.
781025 1500	2	11 01	7.3	1400.	10.2	10.9	420.
781025 1500	3	11 01	7.3	1500.	10.2	10.8	420.
781025 1500	4	11 01	7.3	1600.	10.1	10.4	450.
781025 1500	5	11 01	7.25	1750.	10.1	10.4	450.
781025 1500	6	11 01	7.1	2300.	10.4	9.8	450.
781025 1500	6.5	11 01	7.2	4500.	10.3	9.9	490.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 09203F FRASER R. LAUNCH MARSH

** START ** Y M D H M	DEPTH METRES	SH SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130060 T SAMPLE	0140060 DXY DISS	0390060 ORP
780403 1151	0	09 01	7.15	2070.	6.2	11.1	316.
780403 1151	1	09 01	7.31	3810.	7.	11.4	332.
780403 1151	2	09 01	7.1	4920.	7.2	10.8	340.
780403 1151	3	09 01	7.3	5420.	6.7	11.1	345.
780403 1151	3.8	09 01	7.3	6000.	6.8	11.1	340.
780823 1115	0	11 01	6.7	100.	17.	8.2	
780823 1115	1	11 01	7.4	110.	17.5	8.6	
780823 1115	3	11 01	7.6	100.	17.5	8.6	
780823 1115	3.8	11 01	7.1	100.	17.	8.7	
781025 1450	0	11 01	7.7	1100.	10.4	11.5	330.
781025 1450	1	11 01	7.6	1100.	10.4	10.6	340.
781025 1450	2	11 01	7.3	1150.	10.3	10.6	400.
781025 1450	3	11 01	7.3	1400.	10.3	10.2	410.
781025 1450	4	11 01	7.2	1800.	10.	10.4	420.
781025 1450	4.5	11 01	7.	2500.	10.	10.	450.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-5 (CONTINUED)
RAW DATA FOR REACH E

TEST RESULTS FOR SITE 0920372 FRASER R. LADNER MARSH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1200	0	09 01	7.09	3100.	7.9	10.5	331.
780403 1200	1	09 01	7.02	2900.	7.5	10.3	340.
780403 1200	2	09 01	7.1	3500.	7.3	10.8	343.
780403 1200	3	09 01	7.	4000.	7.3	10.5	340.
780403 1200	4.5	09 01	7.	5810.	7.	9.5	325.
780823 1125	0	11 01	7.3	60.	17.	7.5	
780823 1125	1	11 01	7.2	80.	17.5	7.4	
780823 1125	3	11 01	6.9	90.	17.5	7.4	
780823 1125	5	11 01	6.9	400.	17.5	7.35	
781025 1440	0	11 01	7.6	1100.	16.4	11.2	
781025 1440	1	11 01	7.4	1500.	16.2	10.8	400.
781025 1440	2	11 01	7.4	1700.	10.3	10.7	420.
781025 1440	3	11 01	7.2	1900.	10.	10.4	420.
781025 1440	4	11 01	6.95	2800.	10.2	9.7	450.
781025 1440	5	11 01	6.7	5100.	11.	7.9	500.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	450. MV

TEST RESULTS FOR SITE 0920429 FRASER R.LOW. LADNER RCH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1115	0	09 01	7.6	3230.	6.5	12.	350.
780403 1115	1	09 01	7.6	3600.	6.5	12.1	344.
780403 1115	2	09 01	7.6	4190.	6.3	12.2	350.
780403 1115	3	09 01	7.58	4400.	6.4	12.1	353.
780403 1115	4	09 01	7.55	5000.	6.5	12.	357.
780403 1115	5	09 01	7.55	5700.	6.3	12.	360.
780403 1115	7	09 01	7.58	6180.	6.3	12.	360.
780403 1115	9	09 01	7.6	6500.	6.3	12.	360.
780823 1040	0	11 01	7.6	80.	17.	9.6	
780823 1040	1	11 01	7.9	80.	17.	9.5	
780823 1040	3	11 01	7.7	80.	17.	9.5	
780823 1040	5	11 01	7.6	90.	17.	9.5	
780823 1040	10	11 01	7.7	90.	17.5	9.4	
780823 1040	13	11 01	7.7	100.	17.5	9.2	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-6

RAW DATA FOR REACH F

TEST RESULTS FOR SITE 0920430 FRASER R. LADNER MARSH

** START ** Y M D H M	DEPTH METRES	SH SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1225	0	09 01	7.4	3650.	7.9	11.3	320.
780403 1225	0.5	09 01	7.45	3400.	7.	11.3	300.
780823 1135	0	11 01	7.4	70.	17.	9.1	
780823 1135	1	11 01	7.25	100.	17.5	8.9	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920431 FRASER R. LADNER MARSH

** START ** Y M D H M	DEPTH METRES	SH SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1231	0	09 01	7.49	4250.	7.2	11.7	318.
780403 1231	1	09 01	7.5	4700.	6.5	11.6	325.
780823 1145	0	11 01	7.7	60.	17.	9.3	
780823 1145	1	11 01	7.5	80.	17.	9.3	
780823 1145	1.5	11 01	7.5	80.	17.	9.3	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920432 FRASER R. LADNER MARSH

** START ** Y M D H M	DEPTH METRES	SH SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1255	0	09 01	7.06	1900.	6.5	12.1	322.
780403 1255	2.5	09 01	7.6	4100.	6.5	11.6	339.
780823 1205	0	11 01	7.8	55.	17.	9.5	
780823 1205	1	11 01	7.8	80.	17.	9.4	
780823 1205	3	11 01	7.8	85.	17.	9.4	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-7

RAW DATA FOR REACH G

TEST RESULTS FOR SITE 0920433 FRASER R. GILMOUR ISLAND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1315	0	09 01	7.7	650.	6.4	12.4	340.
780403 1315	1.2	09 01	7.7	700.	6.4	12.	345.
780823 1215	0	11 01	7.8	90.	17.	9.2	
780823 1215	1	11 01	7.7	90.	17.	9.	
781025 1345	0	11 01	7.7	360.	10.4	11.6	310.
781025 1345	1	11 01	7.6	430.	10.4	11.5	320.
781025 1345	1.5	11 01	7.6	410.	10.4	11.4	320.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920434 FRASER R. GILMOUR ISLAND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1325	0	09 01	7.69	720.	6.	12.	318.
780403 1325	1.6	09 01	7.68	840.	6.	11.9	325.
780823 1220	0	11 01	7.7	60.	17.	9.1	
780823 1220	1	11 01	7.6	70.	17.	9.1	
781025 1415	0	11 01	7.7	630.	10.3	11.5	380.
781025 1415	1	11 01	7.6	790.	10.4	11.	290.
781025 1415	2	11 01	7.4	1000.	10.4	10.9	420.
781025 1415	2.5	11 01	7.5	1800.	10.4	10.6	410.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920435 FRASER R. GILMOUR ISLAND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1335	1.1	09 01	7.7	1180.	6.2	12.1	350.
780823 1225	0	11 01	7.6	50.	17.	9.1	
780823 1225	1	11 01	7.5	60.	17.	9.	
781025 1405	0	11 01	7.7	2900.	10.4	11.6	340.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-8

RAW DATA FOR REACH H

TEST RESULTS FOR SITE 0920262 FRASER R. DEAS ISLAND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1400	0	09 01	7.9	180.	5.9	12.2	332.
780403 1400	2	09 01	7.9	200.	5.8	12.1	345.
780403 1400	4	09 01	7.88	210.	5.6	12.2	350.
780403 1400	6	09 01	7.8	380.	5.7	12.05	355.
780403 1400	8	09 01	7.65	2420.	5.8	12.	373.
780403 1400	9.8	09 01	7.65	4400.	6.	10.9	375.
780823 1240	0	11 01	7.6	85.	17.	9.6	
780823 1240	1	11 01	7.9	90.	17.	9.6	
780823 1240	3	11 01	7.6	85.	17.	9.6	
780823 1240	4	11 01	7.6	90.	17.	9.4	
780823 1240	5	11 01	7.6	90.	17.	9.5	
780823 1240	11	11 01	7.6	90.	17.	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920289 FRASER R. DEAS I. TUNNEL

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1410	0	09 01	7.85	130.	5.8	12.3	338.
780403 1410	2	09 01	7.84	160.	5.8	12.1	346.
780403 1410	4	09 01	7.82	150.	5.8	12.1	352.
780403 1410	6	09 01	7.8	180.	5.8	12.1	355.
780403 1410	8	09 01	7.65	1650.	5.8	12.1	370.
780403 1410	10	09 01	7.61	5400.	5.5	11.9	335.
780403 1410	12	09 01	7.6	20600.	6.	11.3	375.
UNITS			REL UNIT	UMHO/CM	7.3 DEG.C	MG/L	MV

TABLE B-8 (CONTINUED)
RAW DATA FOR REACH H

TEST RESULTS FOR SITE 0920291 FRASER R. DEAS I TUNNEL

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1345	0	09 01	7.79	150.	6.3	12.3	335.
780403 1345	2	09 01	7.78	150.	5.8	12.3	350.
780403 1345	4	09 01	7.75	150.	5.7	12.3	353.
780403 1345	6	09 01	7.75	200.	5.7	12.2	360.
780403 1345	8	09 01	7.65	1700.	5.8	12.4	370.
780403 1345	10	09 01	7.6	5400.	6.	12.2	375.
780403 1345	12	09 01	7.61	22500.	7.2	10.9	368.
780403 1345	14	09 01	7.65	28200.	7.75	10.2	362.
780823 1250	0	11 01	7.7	90.	17.	9.6	
780823 1250	1	11 01	7.7	90.	17.	9.6	
780823 1250	2.9	11 01	7.5	90.	17.	9.5	
780823 1250	5	11 01	7.6	90.	17.	9.5	
780823 1250	10	11 01	7.6	90.	17.	9.6	
780823 1250	20	11 01	7.7	90.	16.	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-9

RAW DATA FOR REACH I

TEST RESULTS FOR SITE 0920436 FRASER R.UPS WOODWARD LND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1425	0	09 01	7.78	650.	6.4	12.2	320.
780403 1425	2	09 01	7.72	800.	6.5	12.1	338.
780403 1425	4	09 01	7.7	890.	6.4	12.	344.
780403 1425	6	09 01	7.54	3200.	6.3	11.7	362.
780403 1425	7	09 01	7.22	8650.	6.5	10.3	330.
780823 1230	0	11 01	7.8	60.	17.	9.4	
780823 1230	1	11 01	7.8	70.	17.5	9.2	
780823 1230	3	11 01	7.7	80.	17.5	9.2	
780823 1230	5	11 01	7.7	85.	17.5	9.2	
780823 1230	9.4	11 01	7.5	90.	17.5	9.	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-10

RAW DATA FOR REACH J

TEST RESULTS FOR SITE 0920278 FRASER R. DNS DEAS IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1515	0	09 01	7.88	770.	6.8	12.	289.
780403 1515	1	09 01	7.8	730.	6.8	12.	300.
780403 1515	2	09 01	7.65	900.	6.5	11.8	303.
780403 1515	3	09 01	7.5	1280.	6.5	11.7	293.
780403 1515	4	09 01	7.5	1390.	6.4	11.6	305.
780403 1515	5	09 01	7.5	1410.	6.4	11.6	310.
780823 1300	0	11 01	7.5	10.	17.5	9.	
780823 1300	1	11 01	7.4	10.	17.5	8.7	
780823 1300	3	11 01	7.5	10.	17.5	8.8	
780823 1300	5	11 01	7.3	50.	17.5	8.8	
781025 1330	0	11 01	7.7	320.	10.4	11.4	280.
781025 1330	1	11 01	7.6	340.	10.3	11.4	290.
781025 1330	2	11 01	7.4	370.	10.3	11.	310.
781025 1330	3	11 01	7.6	380.	10.3	10.9	300.
781025 1330	4	11 01	7.5	410.	10.3	11.1	310.
781025 1330	5	11 01	7.55	400.	10.3	11.2	300.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920288 FRASER R. DEAS SLOUGH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1628	0	09 01	7.1	990.	9.8	10.3	305.
780403 1628	1	09 01	7.12	990.	8.5	10.	305.
780403 1628	2	09 01	7.31	1120.	7.	10.8	290.
780403 1628	3	09 01	7.28	1400.	7.	10.41	280.
780403 1628	4	09 01	7.15	1900.	7.3	9.7	260.
780403 1628	5	09 01	6.8	6200.	6.8	5.75	245.
780403 1628	5.8	09 01	6.5	11900.	6.5	0.65	210.
780823 1350	0	11 01	7.2	110.	18.	7.2	
780823 1350	1	11 01	6.4	110.	18.	7.2	
780823 1350	3	11 01	6.9	120.	18.	7.4	
780823 1350	5	11 01	6.9	130.	17.5	4.6	
781025 1310	0	11 01	7.2	630.	10.6	8.7	300.
781025 1310	1	11 01	7.2	630.	10.5	8.6	310.
781025 1310	2	11 01	7.15	720.	10.5	8.	320.
781025 1310	3	11 01	7.2	760.	10.4	7.8	320.
781025 1310	4	11 01	7.	810.	10.3	8.3	330.
781025 1310	4.5	11 01	6.9	850.	10.4	8.05	340.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-10 (CONTINUED)

RAW DATA FOR REACH J

TEST RESULTS FOR SITE 0920413 FRASER R. DEAS SLOUGH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1604	0	09 01	7.3	1090.	8.4	10.8	298.
780403 1604	1	09 01	7.25	1100.	8.	10.7	312.
780403 1604	2	09 01	7.2	1400.	7.9	10.4	320.
780403 1604	3	09 01	7.16	1490.	7.7	10.2	325.
780403 1604	4	09 01	7.21	1700.	7.	10.5	330.
780403 1604	5	09 01	7.	4420.	7.	8.7	299.
780823 1315	0	11 01	6.9	70.	17.5	8.	
780823 1315	1	11 01	6.7	80.	17.5	8.4	
780823 1315	3	11 01	6.7	10.	17.5	8.	
780823 1315	5	11 01	7.2	85.	17.5	8.	
781025 1315	0	11 01	7.4	710.	10.4	9.	300.
781025 1315	1	11 01	7.35	760.	10.4	9.3	310.
781025 1315	2	11 01	7.4	840.	10.3	9.3	310.
781025 1315	3	11 01	7.	890.	10.3	9.45	390.
781025 1315	4	11 01	7.2	960.	10.3	9.3	350.
781025 1315	5	11 01	7.1	1400.	10.5	8.9	360.
781025 1315	5.5	11 01	7.1	1200.	10.6	8.2	300.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920414 FRASER R. DEAS SLOUGH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1615	0	09 01	7.05	900.	10.2	10.	300.
780403 1615	1	09 01	7.	920.	9.7	9.9	312.
780403 1615	2	09 01	7.25	1050.	7.	10.7	325.
780403 1615	3	09 01	7.12	1350.	7.5	10.	335.
780403 1615	4	09 01	7.08	1720.	7.5	9.8	340.
780403 1615	5	09 01	6.8	6700.	7.	5.8	261.
780823 1325	0	11 01	7.2	110.	17.5	7.5	
780823 1325	1	11 01	7.	110.	18.	7.3	
780823 1325	3	11 01	6.9	110.	18.	7.3	
780823 1325	5	11 01	6.9	115.	17.5	7.1	
781025 1305	0	11 01	7.2	540.	10.5	8.8	300.
781025 1305	1	11 01	7.2	540.	10.4	8.55	310.
781025 1305	1.5	11 01	7.2	560.	10.3	8.4	310.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-10 (CONTINUED)

RAW DATA FOR REACH J

TEST RESULTS FOR SITE 0920437 FRASER R. DEAS SLOUGH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE AG TP LOC T	0040060 PH	0110060 SPF COND	0130060 T SAMPLG	0140060 OXY DISS	0390060 ORP
780403 1530	0	09 01	7.35	910.	8.5	11.4	305.
780403 1530	1	09 01	7.36	900.	8.2	11.2	319.
780403 1530	2	09 01	7.35	990.	7.5	11.2	329.
780403 1530	3	09 01	7.4	1100.	7.	11.4	331.
780403 1530	4	09 01	7.2	1620.	7.2	10.5	339.
780403 1530	4.8	09 01	7.2	1900.	7.	10.6	340.
780823 1310	0	11 01	7.4	10.	17.5	8.	
780823 1310	1	11 01	7.4	10.	17.5	8.1	
780823 1310	3	11 01	7.	10.	17.5	8.1	
780823 1310	5	11 01	7.	60.	17.5	8.2	
781025 1325	0	11 01	7.6	340.	10.2	11.2	260.
781025 1325	1	11 01	7.5	360.	10.3	11.	280.
781025 1325	2	11 01	7.3	390.	10.3	10.8	300.
781025 1325	3	11 01	7.5	420.	10.2	10.8	240.
781025 1325	4	11 01	7.3	480.	10.2	10.5	300.
781025 1325	4.5	11 01	7.4	540.	10.3	10.6	300.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0301311 ANNAVIELLE-INNITIAL D.Z							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 0910	0	09 01	7.7	119.	5.2	13.7	356.
780404 0910	1	09 01	7.76	142.	5.3	13.7	358.
780404 0910	2	09 01	7.76	141.	5.2	13.7	359.
780404 0910	3	09 01	7.76	141.	5.2	13.7	360.
780404 0910	4	09 01	7.76	141.	5.2	13.65	362.
780404 0910	5	09 01	7.73	142.	5.2	13.6	362.
780404 0910	6	09 01	7.74	141.	5.2	13.6	364.
780404 0910	7	09 01	7.72	141.	5.2	13.5	366.
780404 0910	8	09 01	7.71	142.	5.3	13.5	370.
780404 0910	9	09 01	7.7	141.	5.3	13.4	369.
780823 1520	0	11 01	7.7	10.	16.5	9.6	
780823 1520	1	11 01	7.6	10.	16.5	9.6	
780823 1520	3	11 01	7.7	10.	16.5	9.5	
780823 1520	5	11 01	7.4	90.	16.5	9.4	
780823 1520	10	11 01 1	7.5	100.	16.5	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920236 FRASER R. DNS ANNACIS IS.							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 1110	0	09 01	7.77	139.	5.2	13.8	368.
780404 1110	2	09 01	7.69	132.	5.2	13.7	368.
780404 1110	4	09 01	7.7	140.	5.2	13.7	370.
780404 1110	6	09 01	7.78	140.	5.2	13.7	368.
780404 1110	8	09 01	7.72	142.	5.3	13.7	370.
780404 1110	12	09 01	7.7	143.	5.3	13.7	370.
780404 1110	18	09 01	7.75	148.	5.3	13.8	370.
780823 1510	0	11 01	7.8	100.	17.	9.8	
780823 1510	1	11 01	7.8	95.	17.	9.5	
780823 1510	3	11 01	7.7	100.	17.	9.5	
780823 1510	5	11 01	7.6	100.	16.5	9.5	
780823 1510	10	11 01	7.6	95.	16.5	9.5	
780823 1510	18	11 01	7.6	100.	16.5	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-11 (CONTINUED)

RAW DATA FOR REACH K

TEST RESULTS FOR SITE 0920241 FRASER R. W. ANNACIS IS.

** START ** Y M D H M	DEPTH METRES	SB AG	SAMPLE TP	LOC	T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 0850	0	09	01			7.74	127.	5.3	13.6	350.
780404 0850	1	09	01			7.74	141.	5.3	13.6	352.
780404 0850	2	09	01			7.75	141.	5.2	13.6	352.
780404 0850	3	09	01			7.77	146.	5.2	13.6	352.
780404 0850	4	09	01			7.5	146.	5.4	13.5	362.
780404 0850	5	09	01			7.51	145.	5.4	13.45	370.
780404 0850	6	09	01			7.49	143.	5.4	13.5	372.
780404 0850	7	09	01			7.5	143.	5.3	13.5	371.
780404 0850	8	09	01			7.5	144.	5.35	13.5	372.
780404 0850	8.5	09	01			7.45	147.	5.35	13.5	372.
780823 1550	0	11	01			7.8	100.	10.5	13.4	375.
780823 1550	1	11	01			7.8	110.	10.5	9.7	
780823 1550	3	11	01			7.9	110.	10.5	9.5	
780823 1550	5	11	01			7.8	110.	10.5	9.5	
780823 1550	10	11	01			7.6	110.	10.5	9.4	
780823 1550	18	11	01			7.6	110.	10.5	9.5	
UNITS						REL UNIT	UMHO/CM	DEG.C	9.4 MG/L	MV

TEST RESULTS FOR SITE 0920244 FRASER R. GUNDERSON SL.

** START ** Y M D H M	DEPTH METRES	SB AG	SAMPLE TP	LOC	T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 0830	0	09	01			7.76	125.	5.2	13.6	340.
780404 0830	1	09	01			7.68	130.	5.2	13.6	340.
780404 0830	2	09	01			7.72	130.	5.2	13.5	350.
780404 0830	3	09	01			7.7	129.	5.2	13.55	353.
780404 0830	4	09	01			7.68	130.	5.2	13.5	348.
780404 0830	5	09	01			7.62	130.	5.2	13.5	350.
780404 0830	6	09	01			7.62	132.	5.2	13.6	350.
780404 0830	7	09	01			7.63	132.	5.2	13.5	350.
780404 0830	8	09	01			7.65	133.	5.2	13.5	351.
780404 0830	8.5	09	01			7.62	130.	5.2	13.4	356.
780823 1550	0	11	01			7.7	100.	10.5	9.8	
780823 1550	1	11	01			7.6	95.	10.5	9.6	
780823 1550	3	11	01			7.1	100.	10.5	9.6	
780823 1550	5	11	01			7.6	100.	10.5	9.7	
780823 1550	10	11	01			7.5	100.	10.5	9.5	
780823 1550	18	11	01			7.6	100.	10.5	9.2	
UNITS						REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920246 FRASER R. S. ANNACIS IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 0922	0	09 01	7.7	140.	5.2	13.5	352.
780404 0922	1	09 01	7.72	141.	5.3	13.5	358.
780404 0922	2	09 01	7.7	143.	5.3	13.5	360.
780404 0922	3	09 01	7.7	142.	5.3	13.5	360.
780404 0922	4	09 01	7.72	145.	5.3	13.4	361.
780823 1530	0	11 01	7.7	95.	16.5	10.	
780823 1530	1	11 01	7.9	95.	16.5	9.6	
780823 1530	3	11 01	7.8	95.	16.5	9.6	
780823 1530	5	11 01	7.6	95.	16.5	9.5	
780823 1530	10	11 01	7.6	95.	16.5	9.6	
780823 1530	13	11 01	7.	95.	16.5	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-12

RAW DATA FOR REACH L

TEST RESULTS FOR SITE 0301309 ANNACIS CHANNEL-CONTROL							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 1100	0	09 01	7.64	131.	5.3	13.7	342.
780404 1100	2	09 01	7.66	132.	5.4	13.5	352.
780404 1100	4	09 01	7.68	133.	5.3	13.5	359.
780404 1100	6	09 01	7.67	138.	5.4	13.5	360.
780404 1100	7.5	09 01	7.68	138.	5.4	13.4	363.
780823 1450	0	11 01	7.	90.	17.	10.	
780823 1450	1	11 01	7.	90.	17.	10.	
780823 1450	3	11 01	7.7	90.	16.5	9.6	
780823 1450	5	11 01	7.6	90.	16.5	9.6	
780823 1450	10	11 01	7.6	90.	16.5	9.5	
780823 1450	12	11 01	7.6	10.	16.5	9.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920438 FRASER R. ANNACIS CHANNEL							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 1017	0	09 01	7.69	133.	5.4	13.6	326.
780404 1017	2	09 01	7.7	131.	5.3	13.4	340.
780404 1017	4	09 01	7.7	133.	5.4	13.5	384.
780404 1017	6	09 01	7.7	137.	5.3	13.4	353.
780823 1650	0	11 01	7.6	90.	16.5	9.6	
780823 1650	1	11 01	7.6	90.	16.5	9.4	
780823 1650	3	11 01	7.5	90.	16.5	9.3	
780823 1650	4	11 01	7.5	95.	16.5	9.3	
780823 1650	8	11 01	7.6	100.	16.5	9.4	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-12 (CONTINUED)
RAW DATA FOR REACH L

TEST RESULTS FOR SITE 0920439 FRASER R. ANNACIS CHANNEL

** START ** Y M D H M	DEPTH METRES	SH SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 1030	0	09 01	7.69	132.	5.3	13.8	359.
780404 1030	2	09 01	7.68	132.	5.4	13.7	365.
780404 1030	4	09 01	7.68	132.	5.4	13.6	367.
780404 1030	6	09 01	7.7	136.	5.4	13.5	370.
780404 1030	8	09 01	7.7	138.	5.4	13.5	369.
780823 1710	0	11 01	7.6	95.	16.5	9.6	
780823 1710	1	11 01	7.6	95.	16.5	9.4	
780823 1710	3	11 01	7.5	100.	16.5	9.4	
780823 1710	4	11 01	7.4	100.	16.5	9.3	
780823 1710	8	11 01	7.4	100.	16.5	9.45	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-13

RAW DATA FOR REACH M

TEST RESULTS FOR SITE 0920440 FRASER R. TILBURY SLOUGH							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 1435	0	09 01	6.7	265.	9.2	7.5	188.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920441 FRASER R. TILBURY SLOUGH							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 1450	0	09 01	7.4	107.	5.8	13.1	360.
781025 1250	0	11 01	7.7	230.	10.1	11.2	210.
781025 1250	1	11 01	7.7	230.	10.2	11.2	210.
781025 1250	2	11 01	7.65	240.	10.1	10.7	210.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920442 FRASER R. TILBURY SLOUGH							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780404 1455	0	09 01	6.9	139.	5.8	13.	302.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-13 (CONTINUED)

RAW DATA FOR REACH M

TEST RESULTS FOR SITE 0920492 FRASER RIVER

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
781025 1240	0	11 01	7.65	310.	10.	11.	180.
781025 1240	1	11 01	7.6	310.	10.	11.	200.
781025 1240	1.5	11 01	7.35	310.	10.	10.9	210.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920493 FRASER RIVER

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
781025 1215	0	11 01	6.9	2450.	8.	7.4	160.
781025 1215	1	11 01	6.85	2500.	7.5	7.	160.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-14

RAW DATA FOR REACH N

TEST RESULTS FOR SITE 0920443 FRASER R. NEW WESTMINSTER

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1000	0	09 01	5.8	113.	5.6	12.9	434.
780405 1000	1	09 01	5.88	113.	5.6	13.	430.
780405 1000	2	09 01	5.9	113.	5.6	13.	428.
780405 1000	3	09 01	5.92	114.	5.6	13.	429.
780405 1000	4	09 01	5.98	112.	5.6	13.1	427.
780405 1000	5	09 01	6.	114.	5.6	13.1	427.
780405 1000	6	09 01	6.	113.	5.6	13.	426.
780405 1000	6.5	09 01	6.	113.	5.5	13.	428.
780823 1620	0	11 01	7.3	120.	17.	8.	
780823 1620	1	11 01	7.2	120.	17.	8.	
780823 1620	3	11 01	7.	120.	17.	8.	
780823 1620	4.5	11 01	7.1	110.	17.	8.1	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920444 FRASER R. NEW WESTMINSTER

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1010	0	09 01	6.3	104.	5.6	13.5	390.
780405 1010	2	09 01	6.3	104.	5.5	13.3	403.
780405 1010	4	09 01	6.15	105.	5.5	13.3	410.
780405 1010	6	09 01	6.44	109.	5.3	13.5	409.
780823 1610	0	11 01	7.4	110.	17.	8.1	
780823 1610	1	11 01	7.4	110.	17.	8.	
780823 1610	3	11 01	7.3	110.	17.	7.8	
780823 1610	5	11 01	7.5	110.	17.	8.3	
780823 1610	6	11 01	7.7	20.	16.5	6.3	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-15

RAW DATA FOR REACH O

TEST RESULTS FOR SITE 0920247 FRASER R. UPS ANNACIS IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LUC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1245	0	09 01	7.49	10.	5.6	13.8	270.
780405 1245	2	09 01	7.54	59.	5.6	13.2	288.
780405 1245	4	09 01	7.53	53.	5.5	13.2	300.
780405 1245	6	09 01	7.51	75.	5.5	13.1	309.
780824 1020	0	11 01	7.6	45.	16.5	9.4	
780824 1020	1	11 01	7.6	50.	16.5	9.3	
780824 1020	3	11 01	7.6	60.	16.5	9.2	
780824 1020	5	11 01	7.5	70.	16.5	9.3	
780824 1020	9	11 01	7.5	80.	16.5	8.7	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920445 FRASER R. NEW WESTMINSTER

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LUC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1015	0	09 01	6.64	119.	5.2	14.1	396.
780405 1015	2	09 01	6.69	108.	5.2	13.9	396.
780405 1015	4	09 01	6.75	107.	5.2	13.7	396.
780405 1015	8	09 01	6.79	109.	5.2	13.5	400.
780405 1015	12	09 01	6.78	117.	5.2	13.4	399.
780823 1630	0	11 01	7.8	100.	16.5	9.8	
780823 1630	1	11 01	7.75	110.	16.5	9.6	
780823 1630	3	11 01	7.7	110.	16.5	9.6	
780823 1630	5	11 01	7.6	100.	16.5	9.6	
780823 1630	10	11 01	7.6	100.	16.5	9.6	
780823 1630	18	11 01	7.7	110.	16.5	9.7	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-15 (CONTINUED)

RAW DATA FOR REACH 0

TEST RESULTS FOR SITE 0920446 FRASER R. NEW WESTMINSTER							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1030	0	09 01	7.5	99.	5.3	13.7	348.
780405 1030	2	09 01	7.25	100.	5.3	13.7	360.
780405 1030	4	09 01	7.25	100.	5.3	13.8	362.
780405 1030	6	09 01	7.09	102.	5.3	13.7	378.
780405 1030	8	09 01	7.09	100.	5.3	13.6	380.
780823 1640	0	11 01	7.7	100.	16.5	9.7	
780823 1640	1	11 01	7.8	90.	16.5	9.4	
780823 1640	3	11 01	7.6	100.	16.5	9.4	
780823 1640	4	11 01	7.6	100.	16.5	9.4	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-16

RAW DATA FOR REACH P

TEST RESULTS FOR SITE 0920280 FRASER R. POPLAR I.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130060 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1100	0	09 01	7.31	94.	5.5	13.8	338.
780405 1100	1	09 01	7.32	99.	5.5	13.5	344.
780405 1100	1.5	09 01	7.31	99.	5.5	13.4	353.
780405 1100	2.5	09 01	7.31	99.	5.5	13.4	359.
780405 1100	3.5	09 01	7.31	99.	5.5	13.4	360.
780405 1100	4.5	09 01	7.31	100.	5.5	13.4	362.
780405 1100	5	09 01	7.3	100.	5.5	13.3	364.
780405 1100	6	09 01	7.29	100.	5.5	13.2	365.
780824 0840	0	11 01	7.6	70.	16.	9.8	
780824 0840	1	11 01	7.6	70.	16.5	9.8	
780824 0840	3	11 01	7.5	70.	16.5	9.8	
780824 0840	5	11 01	7.5	70.	16.5	9.8	
780824 0840	6.4	11 .1	7.5	75.	16.5	9.8	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920447 FRASER R. POPLAR ISLAND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130060 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1050	0	09 01	7.21	70.	5.4	13.7	356.
780405 1050	1	09 01	7.25	96.	5.4	13.7	360.
780405 1050	2	09 01	7.2	96.	5.4	13.7	367.
780405 1050	3	09 01	7.28	97.	5.4	13.6	366.
780824 0820	0	11 01	7.7	45.	16.5	9.8	
780824 0820	1	11 01	7.7	60.	16.5	9.9	
780824 0820	3	11 01	7.7	65.	16.5	9.9	
780824 0820	4	11 01	7.6	65.	16.5	9.8	
780824 0820	6	11 01	7.5	65.	16.5	9.8	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-17

RAW DATA FOR REACH Q

TEST RESULTS FOR SITE 0920448 FRASER R.QUEENSBOROUGH B.							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1115	0	09 01	7.16	10.	5.7	13.2	342.
780405 1115	1	09 01	7.14	8.	5.7	12.3	350.
780405 1115	1.5	09 01	7.13	8.	5.7	12.2	353.
780824 0900	0	11 01	7.5	85.	16.	9.6	
780824 0900	1	11 01	7.5	85.	16.	9.6	
780824 0900	3	11 01	7.5	90.	16.	9.6	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-18

RAW DATA FOR REACH R

TEST RESULTS FOR SITE 0920450 FRASER R.DNS. POPLAR IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1138	0	09 01	7.15	12.	6.2	12.2	339.
780405 1138	1	09 01	7.	12.	6.1	12.4	351.
780405 1138	2	09 01	7.06	12.	6.	11.6	352.
780405 1138	3	09 01	7.11	12.	5.8	11.7	358.
780824 0940	0	11 01	7.6	60.	16.	9.4	
780824 0940	1	11 01	7.6	60.	16.	9.	
780824 0940	3	11 01	7.4	75.	16.5	9.	
780824 0940	4	11 01	7.4	70.	16.5	8.5	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920451 FRASER R.DNS POPLAR IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1142	0	09 01	7.09	42.	6.3	12.6	349.
780405 1142	1	09 01	7.02	52.	6.2	12.2	355.
780405 1142	2	09 01	7.05	51.	6.	12.2	356.
780824 0950	0	11 01	7.3	100.	16.5	8.9	
780824 0950	1	11 01	7.3	100.	16.5	8.9	
780824 0950	3	11 01	7.5	100.	16.5	9.3	
780824 0950	3.8	11 01	7.5	100.	16.5	9.6	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-19

RAW DATA FOR REACH S

TEST RESULTS FOR SITE 0920220 NEW WEST MINSTER FRASER R

** START ** Y M D H M	DEPTH METRES	SB AG	SAMPLE TP	C LOC	T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1225	0	09	01			7.5	10.	5.5	13.4	272.
780405 1225	2	09	01			7.5	49.	5.5	13.2	295.
780405 1225	4	09	01			7.49	59.	5.5	13.2	308.
780405 1225	6	09	01			7.43	68.	5.5	13.2	316.
780405 1225	8	09	01			7.48	72.	5.5	13.1	320.
780824 1000	0	11	01			7.6	45.	16.	9.6	
780824 1000	1	11	01			7.5	45.	16.5	9.5	
780824 1000	3	11	01			7.3	60.	16.5	9.5	
780824 1000	5	11	01			7.4	70.	16.	9.4	
780824 1000	10	11	01			7.4	80.	16.5	9.2	
780824 1000	11	11	01			7.4	80.	16.5	9.6	
UNITS						REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920267 FRASER R. E. MITCHELL IS.

** START ** Y M D H M	DEPTH METRES	SB AG	SAMPLE TP	C LOC	T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780824 1115	0	11	01			7.5	100.	16.5	9.5	
780824 1115	1	11	01			7.4	100.	17.	9.4	
780824 1115	3	11	01			7.4	100.	16.5	9.4	
780824 1115	5	11	01			7.4	100.	17.	9.5	
780824 1115	9.4	11	01			7.4	100.	17.	9.4	
781026 1155	0	11	01			7.6	110.	10.	10.8	300.
781026 1155	1	11	01			7.3	110.	10.5	10.6	450.
781026 1155	2	11	01			7.2	110.	10.5	10.8	500.
781026 1155	3	11	01			7.3	110.	10.5	10.6	500.
781026 1155	4	11	01			7.2	110.	10.5	10.5	550.
781026 1155	5	11	01			7.4	110.	10.5	10.6	500.
781026 1155	7	11	01			7.4	110.	10.5	10.6	500.
UNITS						REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-19 (CONTINUED)

RAW DATA FOR REACH S

TEST RESULTS FOR SITE 0920449 FRASER R.DNS PUPLAR IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1125	0	09 01	7.49	80.	5.4	13.9	329.
780405 1125	1	09 01	7.46	98.	5.5	13.5	340.
780405 1125	2	09 01	7.43	98.	5.4	13.5	346.
780405 1125	3	09 01	7.44	99.	5.4	13.5	348.
780405 1125	4	09 01	7.42	99.	5.4	13.5	352.
780405 1125	5	09 01	7.4	99.	5.4	13.45	357.
780405 1125	6	09 01	7.23	99.	5.4	13.2	371.
780824 0920	0	11 01	7.6	70.	16.	9.7	
780824 0920	1	11 01	7.6	50.	16.	9.7	
780824 0920	3	11 01	7.6	70.	16.5	9.7	
780824 0920	5	11 01	7.5	75.	16.5	9.8	
780824 0920	10	11 01	7.5	90.	16.5	9.7	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920452 FRASER R. MITCHELL IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1252	0	09 01	7.42	13.	5.6	13.6	316.
780405 1252	2	09 01	7.46	35.	5.5	13.	321.
780405 1252	4	09 01	7.48	45.	5.5	12.8	329.
780405 1252	6	09 01	7.49	58.	5.5	12.6	330.
780824 1025	0	11 01	7.6	90.	16.5	9.4	
780824 1025	1	11 01	7.6	90.	16.5	9.5	
780824 1025	3	11 01	7.4	90.	16.5	9.5	
780824 1025	5	11 01	7.5	90.	16.5	9.5	
780824 1025	6.8	11 01	7.5	90.	16.5	9.5	
781026 1140	0	11 01	7.7	110.	10.	11.2	430.
781026 1140	1	11 01	7.6	110.	10.	10.4	450.
781026 1140	2	11 01	7.3	110.	10.	10.6	550.
781026 1140	3	11 01	7.4	110.	10.	10.6	530.
781026 1140	4	11 01	7.5	110.	10.	10.8	500.
781026 1140	5	11 01	7.5	110.	10.	10.5	500.
781026 1140	6	11 01	7.5	110.	10.	10.7	500.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-20

RAW DATA FOR REACH T

TEST RESULTS FOR SITE 0920266 FRASER R. E. MITCHELL IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1320	0	09 01	7.31	13.	5.7	13.2	318.
780405 1320	2	09 01	7.29	53.	5.7	12.4	328.
780405 1320	4	09 01	7.2	68.	5.7	12.2	339.
780405 1320	6	09 01	7.31	79.	5.7	12.3	332.
780405 1320	6.8	09 01	7.37	81.	5.8	12.4	336.
780405 1326	0	09 01	7.4	27.	5.8	12.7	340.
780405 1326	1	09 01	7.39	34.	5.8	12.2	341.
780405 1326	2	09 01	7.38	48.	5.8	12.3	346.
780405 1326	4	09 01	7.37	67.	5.8	12.3	344.
780405 1326	6	09 01	7.38	80.	5.8	12.3	349.
780405 1326	7	09 01	7.38	83.	5.9	12.1	347.
780824 1105	0	11 01	7.4	90.	10.5	9.7	
780824 1105	1	11 01	7.4	90.	10.5	10.4	
780824 1105	3	11 01	7.3	90.	10.5	10.6	
780824 1105	5	11 01	7.3	90.	10.5	10.2	
780824 1105	10	11 01	7.3	95.	10.5	9.5	
781026 1110	0	11 01	7.5	140.	10.5	11.4	450.
781026 1110	1	11 01	7.5	130.	10.5	10.8	400.
781026 1110	2	11 01	7.	130.	10.5	10.2	550.
781026 1110	3	11 01	7.1	130.	10.5	10.2	550.
781026 1110	4	11 01	7.3	130.	10.5	10.	500.
781026 1110	5	11 01	7.4	130.	10.5	10.2	500.
781026 1110	7	11 01	7.45	130.	10.5	10.4	500.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920268 FRASER R. N. MITCHELL IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1315	0	09 01	7.4	24.	5.8	13.5	318.
780405 1315	2	09 01	7.34	41.	5.8	13.	319.
780405 1315	4	09 01	7.37	62.	5.8	12.3	321.
780405 1315	5.5	09 01	7.3	72.	5.8	12.	319.
780824 1050	0	11 01	7.3	90.	10.5	9.1	
780824 1050	1	11 01	7.3	90.	10.5	9.1	
780824 1050	3	11 01	7.2	90.	17.	9.1	
780824 1050	5	11 01	7.2	90.	17.	9.1	
780824 1050	8	11 01	7.2	100.	17.	9.1	
781026 1120	0	11 01	7.6	120.	10.5	10.4	450.
781026 1120	1	11 01	7.55	120.	10.5	10.2	450.
781026 1120	2	11 01	7.	120.	10.5	10.1	600.
781026 1120	3	11 01	7.1	120.	10.5	9.8	550.
781026 1120	4	11 01	7.2	120.	10.5	10.	550.
781026 1120	5	11 01	7.3	120.	10.5	10.1	530.
781026 1120	6	11 01	7.35	120.	10.5	10.1	525.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-20 (CONTINUED)

RAW DATA FOR REACH T

TEST RESULTS FUR SITE 0920269 FRASER R. UPS MITCHELL I.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1300	0	09 01	7.35	21.	5.7	13.8	330.
780405 1300	1.5	09 01	7.31	38.	5.7	12.8	352.
780405 1300	3.5	09 01	7.38	46.	5.7	12.8	333.
780405 1300	5	09 01	7.38	62.	5.7	12.8	334.
780824 1030	0	11 01	7.5	90.	17.	9.2	
780824 1030	1	11 01	7.4	90.	16.5	9.2	
780824 1030	3	11 01	7.4	100.	16.5	9.2	
780824 1030	5	11 01	7.4	100.	16.5	9.1	
780824 1030	6	11 01	7.4	100.	16.5	8.8	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920453 FRASER R.MITCHELL IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1305	0	09 01	7.39	9.	5.7	13.4	281.
780405 1305	2	09 01	7.4	42.	5.7	12.5	301.
780405 1305	4	09 01	7.4	62.	5.7	12.3	310.
780405 1305	6	09 01	7.39	75.	5.7	12.3	319.
780405 1305	8	09 01	7.19	79.	5.8	12.5	337.
780824 1040	0	11 01	7.4	90.	16.5	9.4	
780824 1040	1	11 01	7.4	90.	16.5	9.2	
780824 1040	3	11 01	7.2	90.	16.5	9.2	
780824 1040	5	11 01	7.2	90.	16.5	9.2	
780824 1040	8.6	11 01	7.3	90.	16.5	9.2	
781026 1130	0	11 01	7.5	110.	10.5	10.4	450.
781026 1130	1	11 01	7.5	110.	10.5	10.4	155.
781026 1130	2	11 01	7.1	110.	10.5	10.2	550.
781026 1130	3	11 01	7.1	110.	10.5	10.4	550.
781026 1130	4	11 01	7.2	110.	10.5	10.4	530.
781026 1130	5	11 01	7.3	110.	10.5	10.2	500.
781026 1130	7	11 01	7.4	110.	10.5	10.2	500.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-21

RAW DATA FOR REACH U

TEST RESULTS FOR SITE 0300002 FRASER RIVER OAK ST BG

** START ** Y M D H M	DEPTH METRES	SR SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1340	0	09 01	7.48	120.	5.9	13.3	255.
780405 1340	2	09 01	7.52	120.	5.8	12.6	286.
780405 1340	4	09 01	7.44	149.	5.8	12.7	300.
780405 1340	6	09 01	7.49	144.	5.8	12.4	308.
780405 1340	8	09 01	7.18	181.	5.8	12.4	331.
780405 1340	10	09 01	7.21	192.	5.8	12.3	330.
780824 1130	0	11 01	7.5	190.	16.5	9.1	
780824 1130	1	11 01	7.4	200.	17.	9.	
780824 1130	3	11 01	7.3	190.	17.	9.1	
780824 1130	5	11 01	7.2	220.	17.	8.9	
780824 1130	10	11 01	7.2	240.	17.	8.6	
780824 1130	11.8	11 01	7.2	240.	17.	8.6	
781026 1100	0	11 01	7.7	150.	10.5	12.	350.
781026 1100	1	11 01	7.7	140.	10.5	10.8	380.
781026 1100	2	11 01	7.	140.	10.5	10.8	500.
781026 1100	3	11 01	7.3	140.	10.5	10.4	450.
781026 1100	4	11 01	7.4	130.	10.5	10.6	400.
781026 1100	5	11 01	7.5	140.	10.5	10.4	400.
781026 1100	7	11 01	7.5	210.	10.5	10.6	450.
781026 1100	9	11 01	7.4	460.	10.5	10.8	500.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-22

RAW DATA FOR REACH V

TEST RESULTS FOR SITE 0920280 FRASER R. CHIMNEY IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1505	0	09 01	7.46	239.	6.1	13.2	310.
780405 1505	1	09 01	7.25	201.	6.1	12.9	323.
780405 1505	2	09 01	7.22	568.	6.	12.8	307.
780405 1505	3	09 01	7.51	1500.	6.2	12.7	321.
780405 1505	4	09 01	7.49	3090.	6.6	12.5	328.
780405 1505	5	09 01	7.4	9300.	7.1	11.7	337.
780405 1505	6	09 01	6.6	18300.	8.	11.6	384.
780405 1505	7	09 01	6.42	19300.	8.2	11.5	390.
780824 1200	0	11 01	7.2	700.	16.5	9.	
780824 1200	1	11 01	7.1	800.	17.	9.	
780824 1200	3	11 01	6.9	1500.	17.	9.1	
780824 1200	5	11 01	6.1	1900.	17.	9.1	
780824 1200	7.6	11 01	6.1	2600.	17.	8.9	
781026 1030	0	11 01	7.6	1200.	10.5	11.	380.
781026 1030	1	11 01	7.3	1550.	10.5	10.2	400.
781026 1030	2	11 01	7.2	1650.	10.5	9.8	400.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920458 FRASER R. RICHMOND ISLAND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1455	0	09 01	7.82	300.	6.4	13.	259.
780405 1455	1	09 01	7.77	290.	6.2	12.9	281.
780405 1455	2	09 01	7.77	348.	6.2	12.9	290.
780405 1455	3	09 01	7.55	1130.	6.3	12.7	312.
780405 1455	4	09 01	7.48	3070.	6.6	12.4	321.
780405 1455	5	09 01	7.4	13200.	7.6	11.	310.
781026 1025	0	11 01	7.6	1500.	10.	11.	340.
781026 1025	1	11 01	6.6	2000.	10.	11.4	550.
781026 1025	2	11 01	7.5	2700.	10.	10.	380.
781026 1025	3	11 01	7.4	5000.	10.5	9.4	400.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-23

RAW DATA FOR REACH W

TEST RESULTS FOR SITE 0920499 FRASER RIVER N. ARM							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780824 1210	0	11 01	7.2	200.	16.5	9.1	
780824 1210	1	11 01	7.4	200.	16.5	9.	
780824 1210	2.6	11 01	7.2	600.	17.	9.	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	

TABLE B-24

RAW DATA FOR REACH X

TEST RESULTS FOR SITE 0920454 FRASER R. MIDDLE ARM							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1400	0	09 01	7.42	9.	6.4	13.1	286.
780405 1400	1	09 01	7.4	249.	6.3	12.9	300.
780405 1400	2	09 01	7.42	287.	6.2	12.9	309.
780405 1400	3	09 01	7.49	280.	6.2	12.9	312.
780405 1400	4	09 01	7.43	430.	5.9	12.8	320.
780405 1400	5	09 01	7.44	541.	5.9	12.7	322.
780405 1400	6	09 01	6.85	619.	5.9	12.7	362.
780824 1415	0	11 01	7.6	430.	17.	9.	
780824 1415	1	11 01	7.6	410.	17.	9.1	
780824 1415	3	11 01	7.4	610.	17.	9.1	
780824 1415	5	11 01	7.2	760.	16.5	9.1	
780824 1415	8	11 01	6.9	760.	16.5	9.	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920455 FRASER R. MIDDLE ARM							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1418	0	09 01	7.49	1.	7.3	12.5	269.
780405 1418	1	09 01	7.5	4520.	7.2	11.9	279.
780405 1418	2	09 01	7.51	6930.	7.2	12.3	286.
780405 1418	3	09 01	7.52	7190.	7.2	12.2	289.
780405 1418	3.4	09 01	7.52	7110.	7.2	12.1	293.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-24 (CONTINUED)

RAW DATA FOR REACH X

TEST RESULTS FOR SITE 0920456 FRASER R. MIDDLE ARM

** START ** Y M D H M	DEPTH METRES	SR SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1420	0	09 01	7.2	5900.	7.5	12.4	292.
780405 1420	1	09 01	7.52	7110.	7.4	12.4	299.
780405 1420	2	09 01	7.56	7380.	7.4	12.4	302.
780405 1420	3	09 01	7.58	8000.	7.4	12.3	300.
780405 1420	4	09 01	7.55	8680.	7.4	12.3	304.
780405 1420	5	09 01	7.51	8800.	7.4	12.3	308.
780405 1420	6	09 01	7.6	9180.	7.4	12.3	309.
780824 1435	0	11 01	7.4	210.	17.	9.4	
780824 1435	1	11 01	6.7	220.	17.	9.	
780824 1435	3	11 01	6.7	390.	16.5	9.1	
780824 1435	5	11 01	7.	8000.	16.5	8.9	
780824 1435	8	11 01	6.2	11000.	16.	8.6	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920457 FRASER R. MIDDLE ARM

** START ** Y M D H M	DEPTH METRES	SR SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1435	0	09 01	7.58	6300.	7.6	12.6	299.
780405 1435	1	09 01	7.6	7110.	7.6	12.3	300.
780405 1435	2	09 01	7.61	7220.	7.7	12.3	302.
780405 1435	3	09 01	7.6	7300.	7.8	12.3	306.
780405 1435	3.9	09 01	7.6	7330.	7.9	12.3	309.
780824 1425	0	11 01	7.4	270.	17.	9.1	
780824 1425	1	11 01	7.	280.	16.5	9.	
780824 1425	3	11 01	7.	1200.	17.	9.	
780824 1425	3.6	11 01	7.	2900.	17.	6.8	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920494 SWISHWASH I.

** START ** Y M D H M	DEPTH METRES	SR SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780824 1455	0	11 01	7.5	1700.	17.	9.2	
780824 1455	1	11 01	7.6	1700.	17.	9.2	
780824 1455	3	11 01	7.	14000.	17.	9.1	
780824 1455	4	11 01	6.1	15000.	16.5	9.1	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	

TABLE B-25

RAW DATA FOR REACH Y

TEST RESULTS FOR SITE 0920290 FRASER R. E. TUNA IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1540	0	09 01	7.8	3100.	6.6	12.8	321.
780405 1540	2	09 01	7.78	4070.	6.6	12.5	310.
780405 1540	4	09 01	7.79	14900.	7.2	12.2	336.
780405 1540	5	09 01	7.79	17800.	7.8	11.6	410.
780824 1215	0	11 01	7.3	1400.	17.	8.6	
780824 1215	1	11 01	7.3	1600.	17.	8.5	
780824 1215	3	11 01	6.9	3600.	16.5	8.7	
780824 1215	5	11 01	6.	16000.	16.5	8.6	
780824 1215	5.5	11 01	6.	11000.	15.	8.5	
781026 0915	0	11 01	7.5	740.	10.	10.5	240.
781026 0915	1	11 01	7.4	1300.	10.5	10.	260.
781026 0915	2	11 01	7.4	1900.	10.5	10.2	360.
781026 0915	3	11 01	6.8	2500.	10.5	10.	400.
781026 0915	4	11 01	6.8	7800.	11.	8.9	450.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920460 FRASER R. MCDONALD SLOUGH

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1525	0	09 01	7.52	1800.	6.9	12.3	279.
780405 1525	2	09 01	7.4	2210.	7.	12.5	290.
780405 1525	3	09 01	7.58	2590.	7.	12.4	288.
780405 1525	5	09 01	6.29	15000.	7.8	11.9	390.
780405 1525	7	09 01	6.05	22100.	8.5	11.1	402.
780405 1525	9	09 01	5.6	25100.	8.5	9.9	412.
780824 1250	0	11 01	7.	1100.	17.	8.8	
780824 1250	1	11 01	6.7	1100.	17.	8.7	
780824 1250	3	11 01	6.4	1150.	17.	8.7	
780824 1250	5	11 01	6.6	12000.	16.5	8.8	
780824 1250	8	11 01	5.3	19000.	15.5	5.9	
780824 1250	10	11 01	4.8	20000.	15.5	1.5	
781026 0840	0	11 01	7.3	2600.	9.5	9.8	1150.
781026 0840	1	11 01	7.3	2600.	9.5	9.6	1100.
781026 0840	2	11 01	7.3	3200.	10.5	9.6	1100.
781026 0840	3	11 01	7.3	7600.	11.	8.8	1100.
781026 0840	4	11 01	7.1	16000.	11.	8.6	1300.
781026 0840	5	11 01	6.8	21000.	11.5	6.	1400.
781026 0840	6	11 01	6.4	22500.	11.5	5.4	1500.
781026 0840	7	11 01	6.4	22500.	11.	6.8	1400.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-25 (CONTINUED)

RAW DATA FOR REACH 25

TEST RESULTS FOR SITE 0920497 FRASER RIVER MCDNLD SLOUH							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 UXY DISS	0390060 URP
780824 1300	0	11 01	7.4	1100.	17.	8.7	
780824 1300	1	11 01	7.4	1100.	17.	8.8	
780824 1300	3	11 01	6.5	1400.	17.	8.9	
780824 1300	5	11 01	6.5	11000.	17.	9.	
780824 1300	8.5	11 01	5.4	18000.	16.	3.2	
781026 0855	0	11 01	7.5	1400.	9.5	11.2	700.
781026 0855	1	11 01	7.4	2100.	10.	10.	750.
781026 0855	2	11 01	7.3	2800.	10.5	9.8	800.
781026 0855	3	11 01	7.2	4500.	10.5	9.6	900.
781026 0855	4	11 01	7.1	13500.	11.	8.6	1100.
781026 0855	5	11 01	6.7	19000.	11.3	7.2	1200.
781026 0855	6	11 01	6.45	21000.	11.	6.5	1300.
781026 0855	7	11 01	6.	22000.	11.	5.	950.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920298 FRASER R. IONA Is.							
** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 UXY DISS	0390060 URP
781026 0925	0	11 01	7.6	8500.	10.	11.	280.
781026 0925	1	11 01	7.6	9900.	10.5	10.	300.
781026 0925	2	11 01	7.6	11000.	10.5	10.	320.
781026 0925	3	11 01	6.6	14000.	10.5	10.	500.
781026 0925	4	11 01	6.5	19000.	10.5	9.4	550.
781026 0925	5	11 01	6.5	22000.	10.5	9.2	550.
781026 0925	5.5	11 01	6.5	24000.	10.5	8.6	570.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-26

RAW DATA FOR REACH Z

TEST RESULTS FOR SITE 0920216 FRASER NORTH ARM.IONA IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780824 1320	0	11 01	7.5	2700.	16.5	9.	
780824 1320	1	11 01	7.4	3500.	16.5	9.	
780824 1320	3	11 01	7.	7900.	16.	9.2	
780824 1320	5	11 01	5.8	18000.	15.5	9.1	
780824 1320	10	11 01	5.1	20000.	15.	9.	
781026 1005	0	11 01	7.5	3000.	10.5	12.	380.
781026 1005	1	11 01	7.4	3400.	10.5	10.6	400.
781026 1005	2	11 01	7.3	3800.	10.5	10.2	600.
781026 1005	3	11 01	6.7	4200.	10.5	10.2	600.
781026 1005	4	11 01	6.7	9300.	10.5	10.	600.
781026 1005	5	11 01	6.7	16000.	10.	9.6	650.
781026 1005	6	11 01	6.7	25000.	10.55	8.4	650.
781026 1005	7	11 01	6.6	30000.	10.55	7.8	650.
781026 1005	8	11 01	6.6	31000.	10.55	7.4	650.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920297 FRASER R. IONA IS.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
781026 0945	0	11 01	7.5	5600.	10.5	11.	340.
781026 0945	1	11 01	7.4	6300.	10.5	11.3	380.
781026 0945	2	11 01	7.4	11000.	10.5	10.	400.
781026 0945	3	11 01	7.2	11000.	10.5	9.7	450.
781026 0945	4	11 01	7.1	14000.	10.5	9.5	600.
781026 0945	5	11 01	6.4	16000.	10.5	9.4	650.
781026 0945	6	11 01	6.4	26000.	10.5	8.6	650.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-26 (CONTINUED)

RAW DATA FOR REACH Z

TEST RESULTS FOR SITE 0920498 FRASER RIVER MCDONALD SLO

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130060 T SAMPLG	0140060 OXY DISS	0390060 ORP
780824 1245	0	11 01	7.5	1200.	17.	9.	
780824 1245	1	11 01	7.2	1300.	17.	8.9	
780824 1245	3	11 01	6.4	1600.	17.	8.9	
780824 1245	5	11 01	6.3	6200.	16.5	8.9	
780824 1245	6.5	11 01	6.3	16000.	15.	8.9	
781026 0910	0	11 01	7.6	120.	10.5	10.6	600.
781026 0910	1	11 01	7.5	160.	10.5	10.	600.
781026 0910	2	11 01	6.8	1800.	10.5	9.8	600.
781026 0910	3	11 01	6.75	2600.	10.5	10.	650.
781026 0910	4	11 01	6.85	9200.	11.	8.6	950.
781026 0910	5	11 01	6.65	14000.	11.3	8.6	1000.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920459 FRASER R. RICHMOND ISLAND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130060 T SAMPLG	0140060 OXY DISS	0390060 ORP
780405 1512	0	09 01	7.76	2.	6.	13.3	295.
780405 1512	1	09 01	7.7	490.	6.	12.6	300.
780405 1512	3	09 01	7.7	660.	6.1	12.4	308.
780405 1512	5	09 01	7.58	2320.	6.1	12.3	337.
780405 1512	6	09 01	6.68	5100.	6.4	12.5	386.
780405 1512	7	09 01	6.49	7800.	6.5	12.5	400.
780405 1512	10	09 01	6.39	10000.	7.	12.1	402.
780824 1145	0	11 01	7.4	1600.	16.5	9.	
780824 1145	1	11 01	7.4	1400.	17.	9.2	
780824 1145	3	11 01	7.2	1500.	17.	9.2	
780824 1145	5	11 01	6.9	1600.	17.	9.1	
780824 1145	9	11 01	6.5	1800.	17.	9.1	
781026 1035	0	11 01	7.6	580.	10.5	11.	340.
781026 1035	1	11 01	7.5	630.	10.5	10.4	380.
781026 1035	2	11 01	7.5	860.	10.5	11.	400.
781026 1035	3	11 01	7.3	1000.	10.5	11.4	450.
781026 1035	4	11 01	6.8	2300.	10.5	11.4	600.
781026 1035	5	11 01	7.	4000.	10.5	11.2	550.
781026 1035	6	11 01	7.1	5400.	10.5	11.2	550.
781026 1035	7	11 01	7.	13000.	10.5	10.	600.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TABLE B-26 (CONTINUED)

RAW DATA FOR REACH Z

TEST RESULTS FOR SITE 0920495 FRASER RIVER IUNA IS

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780824 1400	0	11 01	7.5	3000.	16.5	9.1	
780824 1400	1	11 01	7.4	3700.	16.5	9.1	
780824 1400	3	11 01	5.8	12000.	16.	9.1	
780824 1400	5	11 01	5.4	21000.	13.5	9.1	
780824 1400	7.3	11 01	4.7	22000.	14.5	8.5	
781026 1000	0	11 01	7.6	3800.	10.	11.4	340.
781026 1000	1	11 01	7.5	3900.	10.5	10.4	360.
781026 1000	3	11 01	6.6	5600.	10.5	9.8	500.
781026 1000	4	11 01	6.4	10000.	10.5	9.	600.
781026 1000	5.5	11 01	6.2	28000.	10.5	8.2	700.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

TEST RESULTS FOR SITE 0920496 FRASER RIVER DEERING I.

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780824 1345	0	11 01	7.4	120.	16.5	9.	
780824 1345	1	11 01	7.2	150.	16.5	9.	
780824 1345	3	11 01	5.6	3000.	16.5	9.	
780824 1345	5	11 01	5.6	13000.	15.	8.8	
780824 1345	5.5	11 01	5.5	7000.	15.	8.8	
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	

TEST RESULTS FOR SITE 0920625 WOOD ISLAND

** START ** Y M D H M	DEPTH METRES	SB SAMPLE C AG TP LOC T	0040060 PH	0110060 SPF COND	0130050 T SAMPLG	0140060 OXY DISS	0390060 ORP
780824 1010	0	11 01	7.1	10.	16.	9.6	
780824 1010	1	11 01	6.8	10.	16.	8.8	
780824 1010	2.7	11 01	6.5	100.	15.	6.4	
781026 1210	0	11 01	7.4	2500.	10.	10.8	380.
781026 1210	1	11 01	7.3	5500.	10.5	9.9	400.
781026 1210	2	11 01	7.	7200.	10.5	9.7	450.
781026 1210	2.5	11 01	7.2	7700.	10.5	9.6	430.
UNITS			REL UNIT	UMHO/CM	DEG.C	MG/L	MV

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